



INTERNATIONAL AMATEUR RADIO UNION

REGION THREE

MONITORING SYSTEM NEWS LETTER



July 2013

Peter Young VK3MV

Reports for June were received from ARSI, JARL, NZART, and the WIA.

This month there were 1065 observations of intruders made across the Region as compared to last month of 959.

A number of OHR systems have been logged on 15 meters this month operating in the higher portion of the band. There were a number of OHR systems operating on 20 meters causing particular interference to a number of "nets" between 14160 - 14300 kHz believed to be coming from NNW of Australia. These have been reported to regulatory authorities.

There is the continual illegal use of 10 meters for local short range communications in a number of Asian countries. More details are provided in the attached data report.

Thank you to all the regional observers for their reports, these reports are needed and really appreciated. Keep them coming.

For those who would like a CSV file of data please email me at: vk3mv@wia.org.au

Peter – VK3MV

kHz	BW	YYYY	MM	DD	GMT	UTC	Emm	Bd	Sft	Hdg	ADM	ID	Description	Grid	Society	Notes
3504.0	1	2013	7	25	1935		F1B		250				CONTINUOUS HF Man Pack 8-PSK	QG52xi	WIA	VK4TJ
3505		2013	7	22	<0615>	0615	G7DF				?	Unid	S3 DOZENS OF SUBCARRIERS ON 100 HZ INTERVALS	RF73MF	NZART	ZL1GWE
3531.0	5	2013	7	21	1945		G7D							QG52xi	WIA	VK4TJ
3538.0	3	2013	7	23	1920		J3E/U						ASIAN	QG52xi	WIA	VK4TJ
3549.0	3	2013	7	24	1915		J3E/U						DAILY, ASIAN	QG52xi	WIA	VK4TJ
3550.0	3	2013	7	27	1950		J3E/U						ASIAN	QG52xi	WIA	VK4TJ
3550.0	40	2013	7	25	1930		P0N						OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
3552		2013	7	25		22:43	J3E						Japanese song with no call sign		JARL	
3562		2013	7	28		22:48	J3E						Japanese song with no call sign		JARL	
3564.0	1	2013	7	13	1915		G7D						5 SUBCARRIERS ON 50 HZ INTERVALS	QG52xi	WIA	VK4TJ
3568.0	1	2013	7	6	2005		F1B		250				CONTINUOUS	QG52xi	WIA	VK4TJ
3584.0	3	2013	7	3	2020		J1C						DAILY	QG52xi	WIA	VK4TJ
3600	3	2013	7	12		21:51	J3E						Music wih no call sign		JARL	
3602.0	3	2013	7	21	1940		J3E/U						ASIAN	QG52xi	WIA	VK4TJ
3602		2013	7	18		20:45	J3E						Japanese song with no call sign		JARL	
3610.0	5	2013	7	4	1625		G7DF						HF MANPACK	QG52xi	WIA	VK4TJ
3611.0	3	2013	7	23	1920		J3E/U						DAILY, ASIAN	QG52xi	WIA	VK4TJ
3623.0	3	2013	7	3	2015		J1C						DAILY	QG52xi	WIA	VK4TJ
3635.9	3	2013	7	7	1915		J3E/U						DAILY, ASIAN	QG52xi	WIA	VK4TJ
3642.0		2013	7	24	1910		A1A						DAILY, MIXED NUMBER/LETTER	QG52xi	WIA	VK4TJ
3676.7	3	2013	7	23	1920		J3E/U						CIPHER ASIAN	QG52xi	WIA	VK4TJ
3700.0		2013	7	24	1910		A1A						MIXED NUMBER/LETTER CIPHER. NOT VK2WIA	QG52xi	WIA	VK4TJ
3760.0	100	2013	7	25	1930		P0N						OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
3792.0	3	2013	7	7	1915		J3E/U						DAILY, ASIAN	QG52xi	WIA	VK4TJ
3792		2013	7	29	<0715>	0715	J3E/U				?	Unid	Intruder Asian voice S5	RF81WM	NZART	ZL2CC
3797.0		2013	7	6	2000		A1A					DRV8	H2FL DE DRV8	QG52xi	WIA	VK4TJ
3798	0.5	2013	7	4		23:17	A1A						h2fl h2fl h2fl de drvz drvz V		JARL	
3798	0.5	2013	7	5		19:52	A1A						h2fl h2fl h2fl de drvz drvz V		JARL	
3798	0.5	2013	7	7		22:03	A1A						h2fl h2fl h2fl de drvz drvz V		JARL	
3798	0.5	2013	7	11		21:53	A1A						h2fl h2fl h2fl de drvz drvz V		JARL	

[illegible]

7015.0	1	2013	7	24	1930		F1B	200			CONTINUOUS DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7015.0	3	2013	7	12	0905		J3E/L		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7015.0	3	2013	7	8	0915		J3E/U		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7015.0	5	2013	7	9	2035		G7DF				HF MANPACK DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7020.0	3	2013	7	1	0935		J3E/L		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7020.0	3	2013	7	4	0750		J3E/U		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7025.0	5	2013	7	29	1935		G7DF				HF MANPACK DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7025.0	3	2013	7	8	0930		J3E/L		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7025.0	3	2013	7	8	0935		J3E/U		INS		DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7027.5		2013	7	3	2105		A1A		RUS	V	HARBOUR BEACON	QG52xi	WIA	VK4TJ
7030.0	5	2013	7	8	1020		G7DF				HF MANPACK DAILY, VILLAGE RADIO	QG52xi	WIA	VK4TJ
7030.0	3	2013	7	1	0925		J3E/L		INS		10 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	VK4TJ
7032.0	5	2013	7	22	1950		G7D				Multi-chnl	QG52xi	WIA	VK4TJ
7032	3.3	2013	7	25	<1930>	1930	M7B		?	Unid		RF72LQ	NZART	ZL1BAD
7035.0	5	2013	7	17	1200		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
7035		2013	7	14	<1310>	1310	P0N		?	Unid	OTHR Out of band spreading to 70035 DAILY, HARBOUR BEACON	RF72LQ	NZART	ZL1BAD
7038.7	6	2013	7	2	2040		A1A		RUS	D	DAILY, HARBOUR BEACON	QG52xi	WIA	VK4TJ
7038.8	6	2013	7	3	2105 <2300- 2310>		A1A		RUS	P	DAILY, HARBOUR BEACON	QG52xi	WIA	VK4TJ
7039		2013	7	3	<2300- 2310>		A1A		RUS	"P"	SINGLE LETTER BEACON "P"	MK82	ARSI	
7039		2013	7	3	<2300- 2310>		A1A		RUS	"D"	SINGLE LETTER BEACON "D"	MK82	ARSI	
7039	0.5	2013	7	1	1030	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	1	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	1	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	1	1910	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	2	1030	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	2	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	2	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	2	1828	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	3	1020	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	3	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	3	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	3	1830	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	4	1030	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	4	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	4	1214	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Magadan

7039	0.5	2013	7	4	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	4	1612	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	4	1706	H24	A1A	15	RUS	M--signal	Chinese talk and music	PM97	JARL	Magadan
7039	0.5	2013	7	4	1710	H24	A1A	321	RUS	F--signal	Chinese talk and music	PM97	JARL	Vladivostok
7039	0.5	2013	7	4	1820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	4	1824	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	5	1020	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	5	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	5	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	5	1830	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	7	1220	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	7	1610	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	7	1720	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	7	1830	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	8	1030	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	8	1210	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	8	1610	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	8	1908	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	9	1030	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	9	1210	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	9	1640	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	9	1720	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	9	1840	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	10	1040	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	10	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	10	1620	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	10	1830	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	11	1730	H24	A1A	15	CHN	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	11	1734	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	11	1820	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	12	1030	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	12	1034	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	12	1210	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	12	1212	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	12	1216	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	12	1610	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	12	1614	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	12	1846	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	12	1848	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	13	1030	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	13	1032	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	13	1034	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	13	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	13	1212	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky

7039	0.5	2013	7	13	1214	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	13	1626	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	13	1630	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	13	1716	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	13	1718	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	13	1720	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	13	1836	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	13	1840	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	14	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	14	1212	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	14	1214	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	14	1620	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	14	1622	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	14	1636	H24	A1A	321	RUS	F--signal	Beacon	PM97	JARL	Vladivostok
7039	0.5	2013	7	15	1210	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	15	1626	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	
7039	0.5	2013	7	15	1628	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	
7039	0.5	2013	7	15	1710	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	
7039	0.5	2013	7	15	1712	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	
7039	0.5	2013	7	15	1836	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	
7039	0.5	2013	7	15	1838	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	
7039	0.5	2013	7	16	1220	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	16	1610	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	16	1718	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	16	1720	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	16	1820	H24	A1A	273	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	17	1210	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	17	1620	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	17	1850	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	18	1210	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	18	1640	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	18	1730	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	18	1840	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	18	1844	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	19	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	19	1214	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	19	1620	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	19	1622	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	19	1810	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	19	1812	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	20	1210	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	20	1640	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	20	1720	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	20	1850	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	21	1212	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky

7039	0.5	2013	7	21	1620	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	21	1730	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	21	1840	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	22	1206	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	22	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	22	1630	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	22	1720	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	22	1840	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	23	1210	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	23	1214	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	23	1610	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	23	1720	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	23	1740	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	23	1846	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	24	1210	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	24	1620	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	24	1730	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	24	1736	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	24	1830	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	25	1212	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	25	1620	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	25	1730	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	25	1830	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	26	1212	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	26	1620	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	26	1716	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	26	1830	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	27	1208	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	27	1210	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	27	1730	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	27	1840	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	28	1210	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	28	1620	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	28	1710	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	28	1830	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	29	1210	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	29	1610	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	29	1720	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	29	1830	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	30	1208	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	30	1214	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	30	1620	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	30	1730	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	30	1840	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	31	1210	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky

7039	0.5	2013	7	31	1216	H24	A1A	15	RUS	M--signal	Beacon	PM97	JARL	Magadan
7039	0.5	2013	7	31	1610	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	31	1730	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039	0.5	2013	7	31	1904	H24	A1A	37	RUS	K--signal	Beacon	PM97	JARL	Kamchatsky
7039		2013	7	DY	<0330>	0330-2200	A1A		RUS	C	RIW	RF72LQ	NZART	ZL1BAD
7039		2013	7	DY	<0330>	0330-2200	A1A		RUS	A	Astrakhan (No call sign)	RF72LQ	NZART	ZL1BAD
7039		2013	7	DY	<0330>	0330-2200	A1A		RUS	F	Vladivostok - Beacon F RJS	RF72LQ	NZART	ZL1BAD
7039		2013	7	DY	<0330>	0330-2200	A1A		RUS	P	Kaliningrad - Beacon P RMP	RF72LQ	NZART	ZL1BAD
7039.1	6	2013	7	4	1620		A1A		RUS	F	DAILY, HARBOUR BEACON	QG52xi	WIA	VK4TJ
7039.2	6	2013	7	16	0855		A1A		RUS	K	DAILY, HARBOUR BEACON	QG52xi	WIA	VK4TJ
7039.3		2013	7	DY	<0330>	0330-2200	A1A		RUS	K	Petropavlovsk - Beacon K RCC	RF72LQ	NZART	ZL1BAD
7039.4		2013	7	DY	<0330>	0330-2200	A1A		RUS	M	Magadan - Beacon M RTS	RF72LQ	NZART	ZL1BAD
7039.5	3	2013	7	1	0925		A2A		RUS	M	DAILY, HARBOUR BEACON, ROUGH NOTE	QG52xi	WIA	VK4TJ
7039.9		2013	7	DY	<0330>	0330-2200	A1A		RUS	S	Severomorsk - Beacon S RIT	RF72LQ	NZART	ZL1BAD
7040	0.5	2013	7	4		23:18	A1A				train of " F ", " M(with ripple?)"		JARL	
7040	0.5	2013	7	5		19:55	A1A				train of " M(with ripple?)"		JARL	
7040	0.5	2013	7	7		22:04	A1A				train of " F ", " M(with ripple?)"		JARL	
7040	0.5	2013	7	11		21:55	A1A				train of " M(with ripple?)"		JARL	
7040	0.5	2013	7	12		21:58	A1A				train of " F ", " M ", " K "		JARL	
7040	0.5	2013	7	14		20:03	A1A				train of " F ", " M "		JARL	
7040	0.5	2013	7	16		22:01	A1A				train of " K ", " M "		JARL	
7040	A1A	2013	7	18		20:54	A1A				train of " K ", " M "		JARL	
7040	A1A	2013	7	20		21:13	A1A				train of " K "		JARL	
7040	A1A	2013	7	25		22:49	A1A				train of " K ", " M "		JARL	
7040	A1A	2013	7	26		22:58	A1A				train of " K ", " M "		JARL	
7040	A1A	2013	7	30		20:54	A1A				train of " K ", " M "		JARL	
7040		2013	7	11	<1930>	1930	P0N		?	Unid	CODAR Out of band VXX spreading to 7040 4 PPS	RF72LQ	NZART	ZL1BAD
7040		2013	7	23	<1315>	1315	P0N		?	Unid	CODAR Out of band VXX spreading to 7040 4 PPS	RF72LQ	NZART	ZL1BAD
7052	3.3	2013	7	22	<1115>	1115-	M7B		?	Unid	Multi-chnl	RF72LQ	NZART	ZL1BAD
7055.0	5	2013	7	31	0935		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ

7060	50	2013	7	29	<1230>	1230-1300	P0N		?	Unid	OTHR Continuous 50 PPS (50k wide, 7060 is centre freq) 100'S OF SUBCARRIERS ON APPROX 36 HZ INTERVALS	RF72LQ	NZART	ZL1BAD
7065.0	5	2013	7	7	1920		G7D					QG52xi	WIA	VK4TJ
7068.0	1	2013	7	3	0850		F1B	200			BURSTS MIXED NUMBER/LETTER CIPHER, MANY NON-ENGLISH CHARACTERS	QG52xi	WIA	VK4TJ
7088.0	1	2013	7	11	1905		A2A					QG52xi	WIA	VK4TJ
7100.0	3	2013	7	11	1900		F1B	125			MIL 188-141A ALE	QG52xi	WIA	VK4TJ
7100.0	5	2013	7	2	0935		G7DF				HF MANPACK MOSLEMS AT PRAYER	QG52xi	WIA	VK4TJ
7100.0	3	2013	7	2	0945		J3E/L		INS			QG52xi	WIA	VK4TJ
7100.0	3	2013	7	3	0850		J3E/U		INS			QG52xi	WIA	VK4TJ
7107.0	3	2013	7	12	0910		J3E/U				ASIAN, NOT CHINESE BAHASA, NO CALL SIGNS, EVER	QG52xi	WIA	VK4TJ
7110.0	3	2013	7	26	0945		J3E/L		INS			QG52xi	WIA	VK4TJ
7110.0	5	2013	7	21	1950		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
7117.0	1	2013	7	13	1220		F1B	500			CONTINUOUS 12 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	VK4TJ
7118.0	5	2013	7	1	0930		G7D					QG52xi	WIA	VK4TJ
7119.0	5	2013	7	2	0945		G7D				4 SUBCARRIERS ON 200 HZ INTERVALS DAILY, SW BROADCAST, RADIO HARGEISA	QG52xi	WIA	VK4TJ
7120.0	8	2013	7	4	1610		A3E		SOM		Beacon	QG52xi	WIA	VK4TJ
7120	3	2013	7	2	1820	H24	JM	non	non	non	white noice	PM97	JARL	non
7120	3	2013	7	3	1820	H24	JM	non	non	non	Chinese talk and music	PM97	JARL	non
7120	3	2013	7	4	1620	H24	A3E	non	non	non	unknown music and talk	PM97	JARL	non
7120	3	2013	7	4	1716	H24	A3E	non	non	non	unknown music and talk	PM97	JARL	non
7120	3	2013	7	4	1830	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	5	1840	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	7	1834	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	9	1830	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	10	1836	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	11	1610	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	11	1720	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	11	1830	H24	A3E	non	non	non	unkown music and	PM97	JARL	non

7120	3	2013	7	12	1840	H24	A3E	non	non	non	talk unkown music and talk	PM97	JARL	non
7120	3	2013	7	13	1620	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	13	1710	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	13	1830	H24	A3E	non	non	non	unknown music and talk	PM97	JARL	non
7120	3	2013	7	14	1624	H24	A3E	non	non	non	unknown music and talk	PM97	JARL	non
7120	3	2013	7	15	1620	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	15	1714	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	15	1830	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	16	1730	H24	A3E	non	non	non	unknown music and talk	PM97	JARL	non
7120	3	2013	7	16	1826	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	19	1640	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	19	1820	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	21	1630	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	21	1738	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	21	1846	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	22	1636	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	22	1726	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	22	1846	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	23	1620	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	23	1726	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	23	1836	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	24	1840	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	25	1820	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	26	1630	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	26	1720	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	26	1840	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	27	1736	H24	A3E	non	non	non	unkown music and talk	PM97	JARL	non

7120	3	2013	7	27	1846	H24	A3E			non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	28	1840	H24	A3E			non	non	non	unkown music and talk	PM97	JARL	non
7120	0.5	2013	7	29	1840	H24	A3E			non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	31	1740	H24	A3E			non	non	non	unkown music and talk	PM97	JARL	non
7120	3	2013	7	31	1906	H24	A3E			non	non	non	unkown music and talk	PM97	JARL	non
7120	3.3	2013	7	2	<1320>	1320	M7B				?	Unid	Multi chnl	RF72LQ	NZART	ZL1BAD
7120		2013	7	11	<1930>	1930	A3E				SOM	R.Haygaysa	B=-C stn Radio Hargaysa Somalia	RF72LQ	NZART	ZL1BAD
7120		2013	7	14	<1940>	1940	A3E				SOM	R.Haygaysa	B=-C stn Radio Hargaysa Somalia	RF72LQ	NZART	ZL1BAD
7120		2013	7	20	<1430>	1430	A3E				SOM	R.Haygaysa	B=-C stn Radio Hargaysa Somalia	RF72LQ	NZART	ZL1BAD
7120		2013	7	25	<1930>	1930	A3E				SOM	R.Haygaysa	B=-C stn Radio Hargaysa Somalia	RF72LQ	NZART	ZL1BAD
7120		2013	7	28	<2010>	2010	A3E				SOM	R.Haygaysa	B=-C stn Radio Hargaysa Somalia	RF72LQ	NZART	ZL1BAD
7120		2013	7	30	<2020>	2020	A3E				SOM	R.Haygaysa	B=-C stn Radio Hargaysa Somalia	RF72LQ	NZART	ZL1BAD
7121		2013	7	18	<1135>	1135	F1B	50	500		?	Unid	Encoded	RF72LQ	NZART	ZL1BAD
7122	3	2013	7	18	1646	H24	F1B			non	non	non	now on air	PM97	JARL	non
7122	3	2013	7	18	1738	H24	F1B			non	non	non	now on air	PM97	JARL	non
7123.0	1	2013	7	8	2030		F1B		200				CONTINUOUS	QG52xi	WIA	VK4TJ
7125.0	5	2013	7	7	1920		G7DF						HF MANPACK	QG52xi	WIA	VK4TJ
7130.0	5	2013	7	26	0940		G7DF						HF MANPACK	QG52xi	WIA	VK4TJ
7130.0	40	2013	7	9	1010		VXX						CODAR	QG52xi	WIA	VK4TJ
7131.0	3	2013	7	10	0925		J3E/U						ASIAN	QG52xi	WIA	VK4TJ
7132.0	3	2013	7	26	0940		J3E/U						ASIAN	QG52xi	WIA	VK4TJ
7132.0	5	2013	7	2	2045		G7D						8 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	VK4TJ
7132	3.3	2013	7	6	<1935>	1935	M7B				?	Unid	Multi-chnl	RF72LQ	NZART	ZL1BAD
7132	3.3	2013	7	11	<1930>	1930	M7B				?	Unid	Multi-chnl	RF72LQ	NZART	ZL1BAD
7135.0	3	2013	7	11	1900		J3E/U						ASIAN	QG52xi	WIA	VK4TJ
7135.1	3	2013	7	1	0930		J3E/U						ASIAN	QG52xi	WIA	VK4TJ
7140.0	3	2013	7	26	0940		J3E/U						ASIAN	QG52xi	WIA	VK4TJ
7140.0	5	2013	7	23	1930		G7DF						HF MANPACK	QG52xi	WIA	VK4TJ
7141	3.3	2013	7	18	<1140>	1140	M7B				?	Unid	Multi-chnl	RF72LQ	NZART	ZL1BAD
7141	3.3	2013	7	19	<1310>	1310	M7B				?	Unid	Multi-chnl	RF72LQ	NZART	ZL1BAD
7142	3	2013	7	19	1630	H24	JM			non	non	non	white noice	PM97	JARL	non
7144.0	3	2013	7	2	0940		F1B		125				MIL 188-141A ALE	QG52xi	WIA	VK4TJ
7155.0	5	2013	7	13	1900		G7DF						HF MANPACK	QG52xi	WIA	VK4TJ
7158.5	3	2013	7	3	0855		J3E/U						ASIAN	QG52xi	WIA	VK4TJ
7160	3	2013	7	19	1626	H24	JM			non	non	non	white noice	PM97	JARL	non
7170.0	40	2013	7	6	2010		VXX						CODAR	QG52xi	WIA	VK4TJ

7174.3		2013	7	21	1950		A1A					LETTER CIPHER, SOME NON- ENGLISH CHARACTERS	QG52xi	WIA	VK4TJ
7175.0	8	2013	7	3	2035		A3E					SW BROADCAST CODAR Continuous 3.5 PPS	QG52xi	WIA	VK4TJ
7175	35	2013	7	6	<1935>	1935	VXX		?	Unid		>8 SUBCARRIERS ON 200 HZ INTERVALS	RF72LQ	NZART	ZL1BAD
7177.0	5	2013	7	21	1950		G7D					ASIAN MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	VK4TJ
7186.0	3	2013	7	27	1955		J3E/U					DAILY, ASIAN	QG52xi	WIA	VK4TJ
7192.0		2013	7	4	1615		A1A					HF MANPACK	QG52xi	WIA	VK4TJ
7193.4	3	2013	7	10	0925		J3E/U					DAILY, SW BROADCAST	QG52xi	WIA	VK4TJ
7195.0	5	2013	7	31	1930		G7DF					>8 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	VK4TJ
7195.0	8	2013	7	3	2035		A3E					SW BROADCAST, TAIWAN OR CHINA	QG52xi	WIA	VK4TJ
7197.0	5	2013	7	1	0930		G7D					unknown	PM97	JARL	non
7200.0	8	2013	7	27	2005		A3E		non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	1	2013	7	1	2158	H24	A0N		non	CHN	non	Chinese talk and music 22:00 UTC Time signal 5+1 opening	PM97	JARL	Hohhot
7200	3	2013	7	1	2159	H24	A3E		non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 after QRT	PM97	JARL	non
7200	5	2013	7	1	2200	H24	A3E		273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	1	2204	H24	A3E		non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 after QRT	PM97	JARL	non
7200	3	2013	7	1	2258	H24	A3E		273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	5	2013	7	2	2210	H24	A3E		273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	2	2214	H24	A3E		non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 after QRT	PM97	JARL	non
7200	3	2013	7	2	2258	H24	A3E		273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	5	2013	7	3	2212	H24	A3E		273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	3	2216	H24	A3E		non	CHN	non	Chinese talk and music 23:00 UTC Time signal 5+1 after QRT	PM97	JARL	non
7200	3	2013	7	3	2258	H24	A3E		273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	5	2013	7	4	2208	H24	A3E		273	CHN	PBS Nei	Chinese talk and	PM97	JARL	Hohhot

										Meng	music			
7200	3	2013	7	4	2214	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
											Chinese talk and music 23:00			
7200	3	2013	7	4	2258	H24	A3E	273	CHN	PBS Nei Meng	UTC Time signal 5+1 after QRT	PM97	JARL	Hohhot
7200	5	2013	7	5	2214	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	5	2220	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
											Chinese talk and music 23:00			
7200	3	2013	7	5	2258	H24	A3E	273	CHN	PBS Nei Meng	UTC Time signal 5+1 after QRT	PM97	JARL	Hohhot
7200	5	2013	7	7	2210	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	7	2214	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
											Chinese talk and music 23:00			
7200	3	2013	7	7	2258	H24	A3E	273	CHN	PBS Nei Meng	UTC Time signal 5+1 after QRT	PM97	JARL	Hohhot
7200	3	2013	7	8	2158	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
											Chinese talk and music 22:00			
7200	5	2013	7	8	2200	H24	A3E	273	CHN	PBS Nei Meng	UTC Time signal 5+1 opening	PM97	JARL	Hohhot
7200	3	2013	7	8	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	9	2206	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	9	2210	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	1	2013	7	10	2158	H24	A0N	non	CHN	non	no modulation	PM97	JARL	non
											Chinese talk and music 22:00			
7200	5	2013	7	10	2200	H24	A3E	273	CHN	PBS Nei Meng	UTC Time signal 5+1 opening	PM97	JARL	Hohhot
7200	3	2013	7	10	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
											Chinese talk and music 23:00			
7200	3	2013	7	10	2258	H24	A3E	273	CHN	PBS Nei Meng	UTC Time signal 5+1 after QRT	PM97	JARL	Hohhot
7200	5	2013	7	11	2220	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	11	2224	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	12	2220	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	12	2226	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non

7200	5	2013	7	13	2204	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	13	2210	H24	A3E	15	CHN	non	Chinese talk and music	PM97	JARL	non
7200	1	2013	7	14	2158	H24	A0N	non	CHN	non	no modulation	PM97	JARL	non
7200	5	2013	7	14	2200	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music 22:00 UTC Time signal 5+1 opening	PM97	JARL	Hohhot
7200	3	2013	7	14	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	7	14	2258	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music 23:00 UTC Time signal 5+1 after QRT	PM97	JARL	Hohhot
7200	3	2013	7	15	2158	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	15	2200	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music 22:00 UTC Time signal 5+1 opening	PM97	JARL	Hohhot
7200	3	2013	7	15	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	7	15	2258	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music 23:00 UTC Time signal 5+1 after QRT	PM97	JARL	Hohhot
7200	5	2013	7	16	2200	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music 22:00 UTC Time signal 5+1 opening	PM97	JARL	Hohhot
7200	3	2013	7	16	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	17	2210	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	17	2214	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	18	2208	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	18	2214	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	19	2208	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	19	2212	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	1	2013	7	20	2156	H24	A0N	non	non	non	no modulation	PM97	JARL	non
7200	5	2013	7	20	2200	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music 22:00 UTC Time signal 5+1 opening	PM97	JARL	Hohhot
7200	3	2013	7	20	2204	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	21	2206	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot

7200	3	2013	7	21	2210	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	22	2204	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	22	2210	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	7	23	2206	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	23	2210	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	24	2210	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	24	2216	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	25	2210	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	25	2214	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	26	2210	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	26	2214	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	1	2013	7	27	2154	H24	A0N	non	non	non	no modulation	PM97	JARL	non
7200	5	2013	7	27	2200	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music 22:00 UTC Time signal 5+1 opening	PM97	JARL	Hohhot
7200	3	2013	7	27	2206	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	3	2013	7	27	2258	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music 23:00 UTC Time signal 5+1 after QRT	PM97	JARL	Hohhot
7200	5	2013	7	28	2206	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	28	2210	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	29	2208	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	29	2214	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	30	2212	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	30	2216	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
7200	5	2013	7	31	2208	H24	A3E	273	CHN	PBS Nei Meng	Chinese talk and music	PM97	JARL	Hohhot
7200	3	2013	7	31	2212	H24	A3E	non	CHN	non	Chinese talk and music	PM97	JARL	non
10110.0	5	2013	7	9	1020		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
10115.0	5	2013	7	10	1005		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
10120.0	5	2013	7	4	0715		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
14000.0	5	2013	7	5	0945		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
14000.0	3	2013	7	1	0825		F1B	125			MIL 188-141A ALE	QG52xi	WIA	VK4TJ

14000.0	3	2013	7	13	0705		J3E/U					SPANISH OR PORTUGUESE	QG52xi	WIA	VK4TJ
14000.0	3	2013	7	1	0915		J3E/U					DAILY, ASIAN	QG52xi	WIA	VK4TJ
14000		2013	7	DY	HX	HX	G7DE		?	Unid		HF Man Pack 6 & 8 PSK	RF72LQ	NZART	ZL1BAD
14000		2013	7	DY	HX	HX	G7DE/F		?	Unid		HF Man Pack 1 PSK	RF72LQ	NZART	ZL1BAD
14000.5		2013	7	14	<1110- 1125>		J3E/U		CLN	UNID		SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14001.5	3	2013	7	19	1025		J3E/U					ASIAN	QG52xi	WIA	VK4TJ
14002.2	6	2013	7	27	2345		J3E/L					ASIAN MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	VK4TJ
14005.0		2013	7	26	0750		A1A					HF MANPACK	QG52xi	WIA	VK4TJ
14005.0	5	2013	7	5	0950		G7DF					Not printable	RF72LQ	NZART	ZL1BAD
14006		2013	7	23	<1310>	1310	F1B	250	?	Unid		CONTINUOUS	QG52xi	WIA	VK4TJ
14008.0	1	2013	7	14	0820		F1B	250				ASIAN	QG52xi	WIA	VK4TJ
14008.3	6	2013	7	1	0705		J3E/L					HF MANPACK	QG52xi	WIA	VK4TJ
14010.0	5	2013	7	2	0820		G7DF					HF Man Pack 8-PSK S1	QG52xi	WIA	VK4TJ
14011		2013	7	29	<0743>	0743	G7DF	330	?	Unid		SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	RF73Mf	NZART	ZL1GWE
14014		2013	7	5	<0330- 0340>		J3E/U		CLN	UNID		SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14014		2013	7	14	<0240- 0255>		J3E/U		CLN	UNID		HF MANPACK	MK82	ARSI	
14015.0	5	2013	7	2	2140		G7DF					ASIAN	QG52xi	WIA	VK4TJ
14016.0	3	2013	7	3	0935		J3E/U					OTHR, BURSTS	QG52xi	WIA	VK4TJ
14020.0	20	2013	7	13	0510		P0N					SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	QG52xi	WIA	VK4TJ
14020		2013	7	5	<1335- 1345>		J3E/U		CLN	UNID		DAILY, ASIAN	MK82	ARSI	
14021.6	3	2013	7	6	0810		J3E/U					SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	QG52xi	WIA	VK4TJ
14024		2013	7	14	<0210- 0220>		J3E/U		CLN	UNID			MK82	ARSI	

14025.0	5	2013	7	25	1950	G7D				100'S OF SUBCARRIERS ON APPROX 40 HZ INTERVALS	QG52xi	WIA	VK4TJ
14025.0	5	2013	7	25	0830	G7DF				HF MANPACK 12 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	VK4TJ
14025.0	5	2013	7	21	2105	G7D			RUS	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	QG52xi	WIA	VK4TJ
14025		2013	7	6	<1110- 1120>	J3E/U			CLN UNID	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	MK82	ARSI	
14025		2013	7	7	<1130- 1140>	J3E/U			CLN UNID	OTHER, BURSTS ASIAN, NOT CHINESE	MK82	ARSI	
14030.0	20	2013	7	11	0835	P0N				OTHER, BURSTS ASIAN, NOT CHINESE	QG52xi	WIA	VK4TJ
14030.0	3	2013	7	5	0955	J3E/U				HF MANPACK	QG52xi	WIA	VK4TJ
14035.0	5	2013	7	12	0230	G7DF				ASIAN	QG52xi	WIA	VK4TJ
14039.0	8	2013	7	1	0830	J3E/L				OTHER, BURSTS	QG52xi	WIA	VK4TJ
14040.0	20	2013	7	12	0615	P0N				HF MANPACK	QG52xi	WIA	VK4TJ
14040.0	5	2013	7	12	0330	G7DF				OTHER 5 sec burst every 30 secs 50 PPS	QG52xi	WIA	VK4TJ
14040	10	2013	7	29	<2240>	P0N	2240		? Unid	SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	RF72LQ	NZART	ZL1BAD
14041		2013	7	28	<1115- 1125>	J3E/U			CLN UNID	ASIAN, FISHBOATS, ENGINE NOISE	MK82	ARSI	
14041.1	8	2013	7	19	1030	J3E/L				OTHER, BURSTS	QG52xi	WIA	VK4TJ
14045.0	20	2013	7	30	0640	P0N				HF MANPACK	QG52xi	WIA	VK4TJ
14045.0	5	2013	7	5	2205	G7DF				ASIAN	QG52xi	WIA	VK4TJ
14046.0	3	2013	7	22	0925	J3E/U				DAILY, TAGALOG	QG52xi	WIA	VK4TJ
14048.0	3	2013	7	6	0150	J3E/U			PHI	ASIAN	QG52xi	WIA	VK4TJ
14049.5	3	2013	7	14	0820	J3E/U				SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	QG52xi	WIA	VK4TJ
14049.5		2013	7	14	<1015- 1025>	J3E/U			CLN UNID	CONTINUOUS	MK82	ARSI	
14050.0	1	2013	7	24	0940	F1B	250			OTHER, BURSTS	QG52xi	WIA	VK4TJ
14050.0	20	2013	7	11	2115	P0N				HF MANPACK	QG52xi	WIA	VK4TJ
14050.0	5	2013	7	5	0840	G7DF							

14050	10	2013	7	9	<0310>	0310	P0N	?	Unid	OTHR 3.7 sec burst every 22 secs 70 PPS 6 PAIRS OF SUBCARRIERS ON 300 HZ INTERVALS	RF72LQ	NZART	ZL1BAD
14053.0	5	2013	7	22	0840		G7D			HF MANPACK	QG52xi	WIA	VK4TJ
14055.0	5	2013	7	5	2030		G7DF			4 SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA	VK4TJ
14057.0	5	2013	7	25	0725		G7D			HF MANPACK	QG52xi	WIA	VK4TJ
14060.0	5	2013	7	11	2040		G7DF			MIL 188-141A ALE	QG52xi	WIA	VK4TJ
14062.0	3	2013	7	6	2020		F1B	125		ASIAN	QG52xi	WIA	VK4TJ
14063.0	3	2013	7	17	0835		J3E/U			OTHR 70 pps	RF72LQ	NZART	ZL1BAD
14063	15	2013	7	30	<0620>	0620	P0N	?	Unid	ASIAN	QG52xi	WIA	VK4TJ
14063.8	3	2013	7	6	0905		J3E/U			DAILY, ASIAN	QG52xi	WIA	VK4TJ
14064.1	3	2013	7	4	0705		J3E/U			DAILY, ASIAN, FAMILY NET	QG52xi	WIA	VK4TJ
14064.5	3	2013	7	18	0815		J3E/L			HF MANPACK	QG52xi	WIA	VK4TJ
14065.0	5	2013	7	13	0430		G7DF			DAILY, ASIAN	QG52xi	WIA	VK4TJ
14065.0	3	2013	7	5	0805		J3E/U			ASIAN	QG52xi	WIA	VK4TJ
14065.4	3	2013	7	13	0800		J3E/U			SPANISH LANGUAGE	QG52xi	WIA	VK4TJ
14065.9	3	2013	7	13	0705		J3E/U			DAILY, ASIAN	QG52xi	WIA	VK4TJ
14066.0	3	2013	7	17	0835		J3E/U			OTHR, BURSTS SRI LANKAN FISHING TRAWLERS IN SINHALA LANGUAGE ONLY – 2 OM	QG52xi	WIA	VK4TJ
14070		2013	7	19	<0215- 0225>		J3E/U	CLN	UNID	ASIAN	QG52xi	WIA	VK4TJ
14072.0	3	2013	7	1	0900		J3E/U			8 chnls - Idling	RF72LQ	NZART	ZL1BAD
14085		2013	7	6	<1135>	1135	F7D	?	Unid	6 chnls - idle on each	RF72LQ	NZART	ZL1BAD
14085		2013	7	27	<1310>	1310	F7D	?	Unid	ASIAN, SOUNDS CHINESE	QG52xi	WIA	VK4TJ
14086.8	3	2013	7	5	0750		J3E/U			ASIAN, SOUNDS CHINESE	QG52xi	WIA	VK4TJ
14091.8	3	2013	7	31	0805		J3E/U			OTHR 3.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14093	15	2013	7	15	<0210>	0210	P0N	?	Unid	OTHR, BURSTS	QG52xi	WIA	VK4TJ
14100.0	40	2013	7	26	2105		P0N			OTHR 4 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14100	10	2013	7	28	<0545>	0545	P0N	?	Unid	DAILY, TAGALOG	QG52xi	WIA	VK4TJ
14102.0	3	2013	7	3	0840		J3E/U	PHI		OTHR 3.7 secs every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14103	10	2013	7	30	<0225>	0225	P0N	?	Unid	OTHR 3.7 sec burst every 35 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14105	10	2013	7	28	<0010>	0010- 0100		?	Unid	ASIAN	QG52xi	WIA	VK4TJ
14106.6	3	2013	7	27	2320		J3E/U						

14106.7	3	2013	7	22	0925	J3E/U										DAILY, ASIAN	QG52xi	WIA	VK4TJ
14110.0	40	2013	7	14	0705	P0N										OTHR, BURSTS	QG52xi	WIA	VK4TJ
14110.0	1	2013	7	6	0905	F1B		250								CONTINUOUS	QG52xi	WIA	VK4TJ
																DAILY, 8			
14110.0	5	2013	7	2	0830	G7D										SUBCARRIERS ON	QG52xi	WIA	VK4TJ
14110.0	3	2013	7	1	0830	F1B		125								300 HZ INTERVALS	QG52xi	WIA	VK4TJ
																MIL 188-141A ALE			
																OTHR 2+P3 sec burst			
																every 30 secs 80			
14110	10	2013	7	4	<2305>	2305	P0N			?	Unid					PPS	RF72LQ	NZART	ZL1BAD
14110		2013	7	6	<1135>	1135	F1B	50	250	?	Unid					Encoded	RF72LQ	NZART	ZL1BAD
14110	40	2013	7	13	<0651>	0651	VXX			330	?	Unid				CODAR 12 pps S3	RF73MF	NZART	ZL1GWE
																ASIAN, FISHBOATS,			
14111.0	3	2013	7	17	0825		J3E/U									ENGINE NOISE	QG52xi	WIA	VK4TJ
14112.7	3	2013	7	31	0810		J3E/L									ASIAN	QG52xi	WIA	VK4TJ
																HF Man Pack 8-PSK			
14113		2013	7	22	<0646>	0646	G7DF			330	?	Unid				S2	RF73MF	NZART	ZL1GWE
																OTHR 3.7 sec burst			
14113	10	2013	7	12	<0400>	0400	P0N				?	Unid				every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
																ASIAN			
14114.0	3	2013	7	28	0750		J3E/U									INSTRUMENTAL	QG52xi	WIA	VK4TJ
14114	72	2013	7	14	<0559>	0659	P0N				?	Unid				MUSIC	RF73MF	NZART	ZL1GWE
																OTHR 68 pps			
																USB signal Piano			
																music S2 possibly			
14114.5		2013	7	28	<0739>	0739	J3E/U				?	Unid				Voice of Hope in	RF73MF	NZART	ZL1GWE
																Chinese			
																OTHR 3.7 sec burst			
14120	10	2013	7	11	<0450>	0450	P0N				?	Unid				every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14122.2	3	2013	7	17	0835		J3E/L									ASIAN, FAMILY NET	QG52xi	WIA	VK4TJ
																MIXED			
																NUMBER/LETTER			
14123.0		2013	7	9	0750		A1A									CIPHER, FULL	QG52xi	WIA	VK4TJ
																BREAK-IN			
																OTHR 4 sec burst			
14123	10	2013	7	9	<0300>	0300	P0N				?	Unid				every 20 secs 70	RF72LQ	NZART	ZL1BAD
																PPS			
14125	25	2013	7	14	<0550>	0550	P0N				?	Unid				OTHR S7 4 second	RF73MF	NZART	ZL1GWE
																bursts 68 pps			
																OTHR 3.7 sec burst			
14133	10	2013	7	11	<0305>	0305-0500	P0N				?	Unid				every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
																OTHR 3.7 sec burst			
14133	10	2013	7	11	<0305>	0305-0500	P0N				?	Unid				every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
																MIXED			
																NUMBER/LETTER			
14135.0		2013	7	31	0810		A1A									CIPHER, FULL	QG52xi	WIA	VK4TJ
14135.0	3	2013	7	22	0840		J3E/L									BREAK-IN	QG52xi	WIA	VK4TJ
14139.5	3	2013	7	3	0840		J3E/U									ASIAN	QG52xi	WIA	VK4TJ
																DAILY, ASIAN	QG52xi	WIA	VK4TJ

14140		2013	7	30	<0726>	0626	G7DF		330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
14141.5	3	2013	7	12	0840		J3E/U					ASIAN	QG52xi	WIA	VK4TJ
14143	10	2013	7	28	<0010>	0010-0250	P0N			?	Unid	OTHR 3.7 sec burst every 35 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14143	15	2013	7	31	<2200>	2200-2215	P0N			?	Unid	OTHR 4 secs every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14146		2013	7	28	<0728>	0728	J7D		330	CHN	Unid	Chinese 4+4 PSK S3 encrypted	RF73MF	NZART	ZL1GWE
14146		2013	7	29	<0516>	0516	J7D		330	CHN	Unid	Chinese 4+4 PSK S1 Encrypted	RF73MF	NZART	ZL1GWE
14147	10	2013	7	1	<0001>	0001-0125	P0N			?	Unid	OTHR 4 sec burst every 20 secs. 80 PPS. Closed at 0125	RF72LQ	NZART	ZL1BAD
14147	10	2013	7	12	<0450>	0450	P0N			?	Unid	OTHR 3.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14148.0	3	2013	7	1	0920		J3E/U					DAILY, ASIAN, FAMILY NET	QG52xi	WIA	VK4TJ
14150.0	5	2013	7	28	0145		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
14150.0	20	2013	7	28	0145		P0N					OTHR, BURSTS	QG52xi	WIA	VK4TJ
14150	10	2013	7	8	<0028>	0028	P0N			?	Unid	OTHR 3.5 sec burst every 25 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14150	10	2013	7	12	<0235>	0235-0405	P0N			?	Unid	OTHR 3.5 sec burst every 25 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14150	10	2013	7	20	<2245>	2245-2255	P0N			?	Unid	OTHR 4 sec burst every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14153	10	2013	7	22	<0215>	0215	P0N			?	Unid	OTHR 3.8 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14153	20	2013	7	26	<2130>	2130-2150	P0N			?	Unid	OTHR 2.7 sec burst every 25 secs 90 PPS (sometimes double burst 1 sec spacing)	RF72LQ	NZART	ZL1BAD
14155		2013	7	22	<0615>	0615	G7DF		330	?	Unid	HF Man Pack 8-PSK S3	RF73MF	NZART	ZL1GWE
14155	10	2013	7	5	<0510>	0510	P0N			?	Unid	OTHR 4 sec burst every 20 secs 70PPS	RF72LQ	NZART	ZL1BAD
14160.0	20	2013	7	30	0650		P0N					OTHR, BURSTS	QG52xi	WIA	VK4TJ
14160	10	2013	7	22	<2250>	2250	P0N			?	Unid	OTHR 4 sec burst every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14163	15	2013	7	30	<2115>	2115-2130	P0N			?	Unid	OTHR 70 PPS	RF72LQ	NZART	ZL1BAD
14167	10	2013	7	13	<0310>	0310	P0N			?	Unid	OTHR 3.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14173.0	5	2013	7	17	0830		G7D					100'S OF SUBCARRIERS ON RANDOM INTERVALS	QG52xi	WIA	VK4TJ
14173	15	2013	7	15	<0210>	0210	P0N			?	Unid	OTHR 3.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD

14177	15	2013	7	15	<0210>	0210	P0N			?	Unid	OTHR 3.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14179		2013	7	30	<0625>	0625	G7DF		330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
14180.0	50	2013	7	28	0630		P0N					OTHR, LONG BURSTS	QG52xi	WIA	VK4TJ
14181		2013	7	22	<0646>	0646	G7DF		330	?	Unid	HF Man Pack 8-PSK S1	RF73MF	NZART	ZL1GWE
14181.6	3	2013	7	15	0910		J3E/U					ASIAN, FISHBOATS, ENGINE NOISE	QG52xi	WIA	VK4TJ
14183	10	2013	7	6	<2310>	2310	P0N			?	Unid	OTHR 3.5 sec burst every 40 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14183	24	2013	7	22	<0611>	0611	P0N		330	?	Unid	OTHR S7 4 second bursts 68 pps	RF73MF	NZART	ZI1GWE
14183		2013	7	28	<0602>	0602	P0N			?	Unid	OTHR S5 ANZA Net affected	RF73MC	NZART	ZL1TTG
14185	10	2013	7	4	<0605>	0605	P0N			?	Unid	OTHR 4 sec burst every 39 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14185	10	2013	7	23	<0330>	0330	P0N			?	Unid	OTHR 4 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14186.9	3	2013	7	6	0910		J3E/U					ASIAN	QG52xi	WIA	VK4TJ
14190	10	2013	7	30	<0620>	0620	P0N			?	Unid	OTHR 70 pps Chinese 4+4 PSK S1	RF72LQ	NZART	ZL1BAD
14190		2013	7	29	<0629>	0629	J7D		330	?	Unid	Encrypted	RF73MF	NZART	ZL1GWE
14192		2013	7	11	<1935>	1935	F1B	200		?	Unid	Idling only	RF72LQ	NZART	ZL1BAD
14192		2013	7	13	<2125>	2125	F1B	200		?	Unid	Not printable	RF72LQ	NZART	ZL1BAD
14193	15	2013	7	30	<2115>	2115- 2130	P0N			?	Unid	OTHR Burst every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14195.0	20	2013	7	25	0740		P0N					OTHR, BURSTS	QG52xi	WIA	VK4TJ
14196.0	5	2013	7	28	0755		G7D					8 PAIRS OF SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA	VK4TJ
14196		2013	7	28	<0715>	0715	J7D	75	330	CHN	Unid	Chinese 4+4 PSK S5 encrypted	RF73MF	NZART	ZL1GWE
14196	24	2013	7	30	<0630>	0630	P0N		330	?	Unid	OTHR S5 66pps	RF73MF	NZART	ZL1GWE
14197	10	2013	7	13	<0310>	0310	P0N			?	Unid	OTHR 3.7 sec burst every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14197		2013	7	22	<0619>	0619	J7D		330	CHN	Unid	Chinese 4+4 PSK-4B S4	RF73MF	NZART	ZL1GWE
14200.0	20	2013	7	30	0730		P0N					OTHR, BURSTS	QG52xi	WIA	VK4TJ
14201.0		2013	7	28	0805		A1A					MIXED NUMBER/LETTER CIPHER	QG52xi	WIA	VK4TJ
14203	10	2013	7	31	<0040>	0040	P0N			?	Unid	OTHR 3.7 secs every 35 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14203.5	25	2013	7	30	<0630>	0630	P0N		330	?	Unid	OTHR S9 66pps	RF73MF	NZART	ZL1GWE
14204.9	3	2013	7	15	0820		J3E/L					DAILY, ASIAN	QG52xi	WIA	VK4TJ
14205.0	5	2013	7	16	0840		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ

14205	10	2013	7	30	<0620>	0620	P0N		?	Unid	OTHR 70 PPS	RF72LQ	NZART	ZL1BAD	
14212.0	3	2013	7	5	0800		F1B	125			MIL 188-141A ALE	QG52xi	WIA	VK4TJ	
14212.5		2013	7	29	<0451>	0451	G7DF		330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
											OTHR sec burst every 20 secs 70 PPS				
14217	10	2013	7	6	<2230>	2230	P0N			?	Unid		RF72LQ	NZART	ZL1BAD
14220		2013	7	DY	<1930>	1930-2100	F1B	200		?	Unid	Idling only	RF72LQ	NZART	ZL1BAD
14221.0	1	2013	7	23	1925		F1B	200				CONTINUOUS	QG52xi	WIA	VK4TJ
14223	10	2013	7	15	<0250>	0250	P0N			?	Unid	OTHR .7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14227		2013	7	30	<0656>	0656	G7DF		330	?	Unid	HF Man Pack 8-PSK S3	RF73MF	NZART	ZL1GWE
												DOZENS OF SUBCARRIERS ON APPROX 80 HZ INTERVALS			
14228.0	5	2013	7	25	0740		G7D						QG52xi	WIA	VK4TJ
14229		2013	7	30	<0641>	0641	P0N		330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
14230	10	2013	7	11	<0255>	0255	P0N			?	Unid	OTHR 3.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14230	10	2013	7	12	<0405>	0405	P0N			?	Unid	OTHR 3.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14230	10	2013	7	14	<2150>	2150-2325	P0N			?	Unid	OTHR 3.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14233.0	1	2013	7	16	0850		F1B	250				-85dbm	QG52xi	WIA	VK4TJ
14234		2013	7	30	<0625>	0625	G7DF		330	?	Unid	CONTINUOUS	RF73MF	NZART	ZL1GWE
14235	10	2013	7	30	<0230>	0230	P0N			?	Unid	HF Man Pack 8-PSK S2	RF72LQ	NZART	ZL1BAD
14235	10	2013	7	31	<0040>	0040	P0N			?	Unid	OTHR 3.7 secs every 35 secs 70 PPS		NZART	
												OTHR 3.5 sec burst every 30 secs 80 PPS			
14237	10	2013	7	4	<0030>	0030	P0N			?	Unid		RF72LQ	NZART	ZL1BAD
14237	10	2013	7	6	<2230>	2230	P0N			?	Unid	OTHR 3.5 sec burst every 50 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14240.0	5	2013	7	25	0745		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ
												DOZENS OF SUBCARRIERS ON APPROX 36 HZ INTERVALS			
14241.0	5	2013	7	25	0740		G7D						QG52xi	WIA	VK4TJ
14242.0	3	2013	7	25	0745		A2A					MCW - ROUGH	QG52xi	WIA	VK4TJ
												NOTE			
14243	10	2013	7	8	<0015>	0015	P0N			?	Unid	OTHR 4 sec burst every 25 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14243	10	2013	7	14	<2346>	2346	P0N			?	Unid	OTHR 4 sec burst every 25 secs 70 PPS	RF72LQ	NZART	ZL1BAD

14243	10	2013	7	12	<0400>	0400	P0N		?	Unid	OTHR .7 secs every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14244.0	5	2013	7	6	0910		G7D				8 SUBCARRIERS ON 200 HZ INTERVALS	QG52xi	WIA	VK4TJ
14244.5	23	2013	7	29	<2344>	2344	P0N	330	?	Unid	OTHR S7 3.7 second bursts 66 pps	RF73MF	NZART	ZL1GWE
14249.8	3	2013	7	8	0835		J3E/L				DAILY, ASIAN	QG52xi	WIA	VK4TJ
14250	10	2013	7	30	<0230>	0230	P0N		?	Unid	OTHR 1.7 sec burst every 35 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14250	15	2013	7	30	<0620>	0620- 0800	P0N		?	Unid	OTHR 70 pps	RF72LQ	NZART	ZL1BAD
14250.5	23	2013	7	30	<0630>	0630	P0N	330	?	Unid	OTHR S5 66pps	RF73MF	NZART	ZL1GWE
14253	10	2013	7	11	<0500>	0500	P0N		?	Unid	OTHR .5 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14253	10	2013	7	12	<2320>	2320	P0N		?	Unid	OTHR 3.7 sec burst every 40 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14253	10	2013	7	21	<2145>	2145- 2240	P0N		?	Unid	OTHR 4 sec burst every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14253	10	2013	7	25	<2330>	2330	P0N		?	Unid	OTHR 10 sec burst every 25 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14253	20	2013	7	30	<2115>	2115- 2130	P0N		?	Unid	OTHR 3.7 secs every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14255	10	2013	7	5	<0455>	0455	P0N		?	Unid	OTHR 3.5 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14256		2013	7	30	<0624>	0624	G7DF	330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
14257	10	2013	7	6	<2230>	2230	P0N		?	Unid	OTHR 3.5 sec burst every 28 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14257	10	2013	7	9	<0305>	0305	P0N		?	Unid	OTHR 3.7 sec burst every 23 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14257		2013	7	30	<0639>	0639	G7DF	330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
14259		2013	7	30	<0703>	0703	G7DF	330	?	Unid	HF Man Pack 8-PSK S3	RF73MF	NZART	ZL1GWE
14260	10	2013	7	11	<0500>	0500	P0N		?	Unid	OTHR 3.7 sec burst every 22 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14263	10	2013	7	4	<0245>	0245	P0N		?	Unid	OTHR 3.7 sec burst every 35 secs. 80 PPS	RF72LQ	NZART	ZL1BAD
14263	10	2013	7	4	<2300>	2300	P0N		?	Unid	OTHR 2 sec burst every 30 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14263	10	2013	7	22	<2300>	2300- 2330	P0N		?	Unid	OTHR sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14263		2013	7	30	<0628>	0628	G7DF	330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE

14263	10	2013	7	22	<2300>	2300-2330	P0N		?	Unid	OTHR sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14265		2013	7	30	<0714>	0714	G7DF	330	?	Unid	HF Man Pack 8-PSK S3	RF73MF	NZART	ZL1GWE
14267	10	2013	7	9	<0315>	0315	P0N		?	Unid	OTHR 3.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14271.3	3	2013	7	25	0745		J3E/U		PHL		TAGALOG. FISHBOATS, ENGINE NOISE	QG52xi	WIA	VK4TJ
14273	10	2013	7	8	<0015>	0015	P0N		?	Unid	OTHR 3.5 sec burst every 30 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14273	10	2013	7	4	<2300>	2300	P0N		?	Unid	OTHR 2 sec burst every 30 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14273	15	2013	7	15	<0510>	0510	P0N		?	Unid	OTHR 3.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14275	10	2013	7	6	<2300>	2300	P0N		?	Unid	OTHR 3.7 sec burst every 40 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14275	10	2013	7	114	<2330>	2330	P0N		?	Unid	OTHR 4 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14275	10	2013	7	21	<2310>	2310	P0N		?	Unid	OTHR 2 Of. Each 3.7 sec burst every 30 secs 70 PPS. Each on same freq	RF72LQ	NZART	ZL1BAD
14275	15	2013	7	30	<0620>	0620-0800	P0N		?	Unid	OTHR 70 PPS	RF72LQ	NZART	ZL1BAD
14277	10	2013	7	11	<0500>	0500	P0N		?	Unid	OTHR 3.7 sec burst every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14277	10	2013	7	12	<0450>	0450	P0N		?	Unid	OTHR 3.7 sec burst every 25 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14280.0	20	2013	7	27	2350		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
14280	10	2013	7	29	<2240>	2240	P0N		?	Unid	OTHR 5 secs every 20 secs - double pulses @ 5 secs spacing 50 PPS	RF72LQ	NZART	ZL1BAD
14280	15	2013	7	30	<0620>	0620-0800	P0N		?	Unid	OTHR 70 PPS	RF72LQ	NZART	ZL1BAD
14283	10	2013	7	4	<2300>	2300	P0N		?	Unid	OTHR 2 sec burst every 30 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14283	10	2013	7	7	<0020>	0020	P0N		?	Unid	OTHR 3.5 sec burst every 20 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14283	10	2013	7	12	<0710>	0710	P0N		?	Unid	OTHR 3.5 sec burst every 20 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14284.0	5	2013	7	6	0910		G7D				100'S OF SUBCARRIERS ON APPROX 33 HZ INTERVALS	QG52xi	WIA	VK4TJ

14284		2013	7	30	<0637>	0637	G7DF		330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
14285	10	2013	7	16	<2340>	2340	P0N			?	Unid	OTHR 4 Sec burst every 25 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14285.4	3	2013	7	1	0840		J3E/L					ASIAN	QG52xi	WIA	VK4TJ
14288	10	2013	7	5	<2215>	2215- 2330	P0N			?	Unid	OTHR 3.5 sec burst every 40 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14289	10	2013	7	4	<0520>	0520	P0N			?	Unid	OTHR 3.5 sec burst every 40 secs. 80 PPS	RF72LQ	NZART	ZL1BAD
14292.0	1	2013	7	31	0815		F1B	500				CONTINUOUS 100'S OF SUBCARRIERS ON APPROX 36 HZ INTERVALS	QG52xi	WIA	VK4TJ
14293.0	5	2013	7	14	0815		G7D						QG52xi	WIA	VK4TJ
14293	10	2013	7	6	<2240>	2240	P0N			?	Unid	OTHR 3.5 sec burst every 40 secs 70PPS	RF72LQ	NZART	ZL1BAD
14293	10	2013	7	23	<0015>	0015	P0N			?	Unid	OTHR 4 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14295	10	2013	7	13	<0305>	0305	P0N			?	Unid	OTHR 3.5 sec burst every 40 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14296.0	5	2013	7	17	0830		G7D					8 PAIRS OF SUBCARRIERS ON 300 HZ INTERVALS	QG52xi	WIA	VK4TJ
14297	10	2013	7	4	<2300>	2300	P0N			?	Unid	OTHR 2 sec burst every 30 secs 80 PPS	RF72LQ	NZART	ZL1BAD
14297	10	2013	7	5	<2320>	2320	P0N			?	Unid	OTHR 3.7 sec burst every 33 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14301		2013	7	30	<0722>	0722	G7DF		330	?	Unid	HF Man Pack 8-PSK S3	RF73MF	NZART	ZL1GWE
14302		2013	7	28	<0712>	0712	G7DF		330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
14303	10	2013	7	13	<0305>	0305	P0N			?	Unid	OTHR 3.7 sec burst every 33 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14303	10	2013	7	21	<2145>	2145	P0N			?	Unid	OTHR 5.3 sec burst every 30 secs 50 PPS	RF72LQ	NZART	ZL1BAD
14305	10	2013	7	6	<0015>	0015	P0N			?	Unid	OTHR 4 sec burst every 35 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14305	10	2013	7	12	<0400>	0400- 0710	P0N			?	Unid	OTHR 4 sec burst every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14307	10	2013	7	14	<0415>	0415	P0N			?	Unid	OTHR 3.5 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14307	10	2013	7	20	<2245>	2245- 2255	P0N			?	Unid	OTHR 4 sec burst every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14307.5		2013	7	29	<0629>	0629	G7DF		330	?	Unid	Chinese 4+4 PSK S1 Encrypted	RF73MF	NZART	ZL1GWE
14310.0	5	2013	7	5	0755		G7DF					HF MANPACK	QG52xi	WIA	VK4TJ

14310.5	1	2013	7	3	0840		F1B	600			BURSTS OTHR 4 sec burst every 20 secs 70 PPS	QG52xi	WIA	VK4TJ
14313	10	2013	7	9	<0250>	0250	P0N		?	Unid	OTHR 4 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14313	10	2013	7	12	<0710>	0710	P0N		?	Unid	OTHR 4 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14313	10	2013	7	14	<2335>	2335	P0N		?	Unid	OTHR 4 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14313	10	2013	7	28	<0545>	0545	P0N		?	Unid	OTHR 4 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14316.6	3	2013	7	30	0850		J3E/U				ASIAN OTHR 4 sec burst every 20 secs 70 PPS	QG52xi	WIA	VK4TJ
14317	10	2013	7	12	<0710>	0710	P0N		?	Unid	OTHR 4 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
14317.4	3	2013	7	23	0830		J3E/U				ASIAN, KIDS TALKING TO DADDY	QG52xi	WIA	VK4TJ
14318.8	3	2013	7	31	0815		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
14325	10	2013	7	5	<0450>	0450	P0N		?	Unid	OTHR 3.5 sec burst every 20 secs 80 PPS OTHR 3.5 sec burst every 15 secs - double pulses with 1 sec spacing 70 PPS	RF72LQ	NZART	ZL1BAD
14325	10	2013	7	9	<0250>	0250	P0N		?	Unid	OTHR 3.7 seconds bursts S5 66pps	RF72LQ	NZART	ZL1BAD
14326	12	2013	7	29	<2357>	2357	P0N	330	?	Unid	OTHR 3.7 sec burst every 37 secs 80 PPS	RF73MF	NZART	ZL1GWE
14327	10	2013	7	12	<2345>	2345	P0N		?	Unid	8 SUBCARRIERS ON 200 HZ INTERVALS	RF72LQ	NZART	ZL1BAD
14328.0	5	2013	7	6	0915		G7D				OTHR, BURSTS	QG52xi	WIA	VK4TJ
14330.0	40	2013	7	14	0705		P0N				HF MANPACK	QG52xi	WIA	VK4TJ
14330.0	5	2013	7	5	0755		G7DF				OTHR 68 pps S3 3 second bursts	QG52xi	WIA	VK4TJ
14330	70	2013	7	14	<0658>	0658	P0N		?	Unid	HF Man Pack 8-PSK S2	Rf73MF	NZART	ZL1GWE
14330		2013	7	30	<0643>	0643	G7DF	330	?	Unid	HF Man Pack 8-PSK S3	RF73MF	NZART	ZL1GWE
14333		2013	7	30	<0725>	0725	G7DF	330	?	Unid	OTHR, BURSTS	RF73MF	NZART	ZL1GWE
14335.0	20	2013	7	21	0030		P0N				DAILY, ASIAN	QG52xi	WIA	VK4TJ
14337.9	3	2013	7	6	0915		J3E/U				OTHR S3 68 pps	QG52xi	WIA	VK4TJ
14338.5	75	2013	7	14	<0658>	0658	P0N	330	?	Unid	OTHR 3.7 sec burst every 20 secs 70 PPS	RF73MF	NZART	ZL1GWE
14340	10	2013	7	11	<0500>	0500	P0N		?	Unid	OTHR S6 66pps	RF72LQ	NZART	ZL1BAD
14342.5	23	2013	7	30	<0643>	0643	P0N	330	?	Unid	OTHR 5 sec burst every 40 secs 50PPS	RF73MF	NZART	ZL1GWE
14343	10	2013	7	4	<2155>	2155	P0N		?	Unid		RF72LQ	NZART	ZL1BAD

14345	26	2013	7	7	<0723>	0723	P0N	330	?	Unid	OTHR 63 pps S7 steady rate widespread products - TX not clean	RF73MF	NZART	ZL1GWE
14347		2013	7	30	<0714>	0714	G7DF	330	?	Unid	HF Man Pack 8-PSK S1	RF73MF	NZART	ZL1GWE
14348	10	2013	7	20	<2245>	2245- 2255	P0N		?	Unid	OTHR 4 sec burst every 30 secs 70 PPS	RF72LQ	NZART	ZL1BAD
18068		2013	7	DY	HX	HX	G7DE/F		?	Unid	HF Man Pack 1 PSK	RF72LQ	NZART	ZL1BAD
18070.0	20	2013	7	18	0830		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
18080.0	20	2013	7	9	0745		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
18080.0	5	2013	7	1	0815		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
18090.0	20	2013	7	2	0730		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
18100.0	20	2013	7	3	0835		P0N				OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
18111.0	3	2013	7	18	0830		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
21000.0	3	2013	7	12	0040		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
21000		2013	7	DY	HX	HX	G7DE/F		?	Unid	HF Man Pack 1 PSK HF Man Pack 6 & 8	RF72LQ	NZART	ZL1BAD
21000		2013	7	DY	HX	HX	G7DE		?	Unid	PSK	RF72LQ	NZART	ZL1BAD
21005.0	3	2013	7	5	0740		J3E/L				ASIAN	QG52xi	WIA	VK4TJ
21020.0	5	2013	7	12	2300		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
21025.0	5	2013	7	2	0745		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
21027.5	3	2013	7	30	0905		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
21035.7	3	2013	7	13	0055		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
21040.0	5	2013	7	5	0730		G7DF				HF MANPACK DAILY, ASIAN, FISHBOATS, ENGINE NOISE	QG52xi	WIA	VK4TJ
21040.5	3	2013	7	18	2355		J3E/U				HF MANPACK	QG52xi	WIA	VK4TJ
21050.0	5	2013	7	5	0105		G7DF				ASIAN	QG52xi	WIA	VK4TJ
21055.0	3	2013	7	6	0810		J3E/L				HF MANPACK	QG52xi	WIA	VK4TJ
21060.0	5	2013	7	6	0140		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
21110.0	5	2013	7	12	0345		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
21111.0	3	2013	7	18	2355		J3E/L				ASIAN, FISHBOATS, ENGINE NOISE	QG52xi	WIA	VK4TJ
21135.0	3	2013	7	8	0825		F1B				SELCALL	QG52xi	WIA	VK4TJ
21135	10	2013	7	23	<0605>	0605	P0N		?	Unid	OTHR .5 sec burst every 35 secs 70 PPS	RF72LQ	NZART	ZL1BAD
21150.0	5	2013	7	6	0145		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
21160	10	2013	7	29	<0415>	0415- 0430	P0N		?	Unid	OTHR 4 sec burst every 12 secs 70 PPS	RF72LQ	NZART	ZL1BAD
21168	20	2013	7	25	<0430>	0430	P0N		?	Unid	OTHR .7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
21180		2013	7	21	<0544>	0544	G7DF		?	Unid	HF Man Pack 8-PSK S3	RF73MF	NZART	ZL1GWE
21193	15	2013	7	17	<0315>	0315	P0N		?	Unid	OTHR 20 sec burst	RF72LQ	NZART	ZL1BAD

21198		2013	7	21	<0543>	0543	G7DF		?	Unid	only HF Man Pack 8-PSK S3	RF73MF	NZART	ZL1GWE
21207	10	2013	7	8	<0030>	0030	VXX		?	Unid	OTHR 1.5 sec burst every 23 secs 5 Double pulses per sec	RF72LQ	NZART	ZL1BAD
21207	15	2013	7	29	<0420>	0420	VXX		?	Unid	CODAR 18 sec burst every 4 mins 7 PPS	RF72LQ	NZART	ZL1BAD
21209.5	19.3	2013	7	14	<0037>	0037	VXX	330	?	Unid	CODAR S3 18 second long	RF73MF	NZART	ZL1GWE
21210.0	5	2013	7	27	0355		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
21210.0	20	2013	7	5	0020		VXX				FAST SWEEPS	QG52xi	WIA	VK4TJ
21213	10	2013	7	13	<2305>	2305- 2320	VXX		?	Unid	CODAR 15 sec burst every 4 mins. 8 PPS. -73dbm	RF72LQ	NZART	ZL1BAD
21213	20	2013	7	31	<2225>	2225	VXX		?	Unid	CODAR 18 secs every 4 Minutes 8 PPS	RF72LQ	NZART	ZL1BAD
21215	15	2013	7	7	<0010>	0010	VXX		?	Unid	CODAR 18 sec burst every 4 mins 8 PPS	RF72LQ	NZART	ZL1BAD
21215	15	2013	7	11	<2350>	2350	VXX		?	Unid	CODAR 15 sec burst every 4 mins 8 PPS	RF72LQ	NZART	ZL1BAD
21215	15	2013	7	12	<0445>	0445	VXX		?	Unid	CODAR 18 sec burst every 4 mins 8 PPS	RF72LQ	NZART	ZL1BAD
21215	20	2013	7	13	<2309>	2308- 2309	P0N		AUS	Unid	OTHR JORN	WebSDR	NZART	VR2BG
21215	20	2013	7	26	<0435>	0435- 0725	VXX		?	Unid	CODAR 18 sec burst every 4 mins 8 PPS	RF72LQ	NZART	ZL1BAD
21215	19	2013	7	30	<0618>	0618	VXX	330	?	Unid	CODAR S3 low speed	RF73MF	NZART	ZL1GWE
21220	15	2013	7	6	<2320>	2320- 2359	VXX		?	Unid	CODAR 20 sec burst every 4 minutes	RF72LQ	NZART	ZL1BAD
21225	15	2013	7	11	<2320>	2320	VXX		?	Unid	CODAR 15 sec burst every 4 mins. 8 PPS	RF72LQ	NZART	ZL1BAD
21227	15	2013	7	17	<0320>	0320	VXX		?	Unid	CODAR 18 sec burst every 4 mins 8 PPS	RF72LQ	NZART	ZL1BAD
21227	15	2013	7	18	<0147>	0147	VXX		?	Unid	CODAR 18 sec burst every 4 mins 8 PPS	RF72LQ	NZART	ZL1BAD
21227	18	2013	7	19	<0315>	0315	VXX		?	Unid	CODAR 18 sec burst every 4 mins 8 PPS	RF72LQ	NZART	ZL1BAD
21229		2013	7	21	<0624>	0624	G7DF	330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
21229		2013	7	29	<0624>	0624	G7DF	330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
21230	15	2013	7	24	<0540>	0540	VXX		?	Unid	CODAR 18 sec burst every 4 minutes 8 PPS	RF72LQ	NZART	ZL1BAD
21233	18	2013	7	19	<2310>	2310	VXX		?	Unid	CODAR 18 sec burst every 4 mins 8 PPS	RF72LQ	NZART	ZL1BAD

21233	10	2013	7	31	<0350>	0350	P0N		?	Unid	OTHR 1.3 secs at random times 60 PPS	RF72LQ	NZART	ZL1BAD
21235	15	2013	7	7	<2230>	2230	P0N		?	Unid	OTHR 15 sec burst every 4 mins	RF72LQ	NZART	ZL1BAD
21240		2013	7	29	<0448>	0448	G7DF	330	?	Unid	HF Man Pack 8-PSK S1	RF73Mf	NZART	ZL1GWE
21243	15	2013	7	29	<0450>	0450	VXX		?	Unid	CODAR 18 sec burst every 4 mins 7 PPS	RF72LQ	NZART	ZL1BAD
21245		2013	7	21	<0549>	0549	G7DF		?	Unid	HF Man Pack 8-PSK S2	Rf73MF	NZART	ZL1GWE
21247	19	2013	7	29	<0455>	0455	VXX	330	?	Unid	CODAR S2	RF73MF	NZART	ZL1GWE
21250	15	2013	7	26	<0220>	0220	P0N		?	Unid	OTHR 1.5 sec burst every 16 secs 50 PPS	RF72LQ	NZART	ZL1BAD
21254.5	19	2013	7	29	<0450>	0450	VXX	330	?	Unid	CODAR S2	RF73MF	NZART	ZL1GWE
21257	20	2013	7	31	<2245>	2245	VXX		?	Unid	CODAR 18 secs every 4 Minutes 8 PPS	RF72LQ	NZART	ZL1BAD
21258		2013	7	29	<0448>	0448	G7DF	330	?	Unid	HF Man Pack 8-PSK S1	RF73MF	NZART	ZL1GWE
21259	15	2013	7	8	<0610>	0610	P0N		?	Unid	OTHR 4 sec burst every 23 secs 80 PPS	RF72LQ	NZART	ZL1BAD
21260.0	5	2013	7	21	0720		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
21260.0	20	2013	7	3	0830		VXX				FAST SWEEPS	QG52xi	WIA	VK4TJ
21260	15	2013	7	29	<0432>	0432-0715	P0N		?	Unid	CODAR 18 sec burst every 4 mins 7 PPS	RF72LQ	NZART	ZL1BAD
21262		2013	7	21	<0721>	0721	G7DF	330	?	Unid	HF Man Pack 8-PSK S3	RF73MF	NZART	ZL1GWE
21263	15	2013	7	8	<0610>	0610	P0N		?	Unid	OTHR 3 sec burst every 20 secs 90 PPS	RF72LQ	NZART	ZL1BAD
21263	15	2013	7	11	<0300>	0300	P0N		?	Unid	OTHR Double pulses 1 sec apart of 1.5 secs duration at 60 PPS	RF72LQ	NZART	ZL1BAD
21265	15	2013	7	11	<2335>	2335	P0N		?	Unid	CODAR 15 sec burst every 4 mins. 8 PPS	RF72LQ	NZART	ZL1BAD
21265	32	2013	7	21	<0652>	0652	VXX	330	?	Unid	CODAR S3 1-2 pps 18.5 seconds long coordinated with Ionosondes	RF73MF	NZART	ZL1GWE
21267.5	19	2013	7	29	<0450>	0450	VXX	330	?	Unid	CODAR S2	RF73MF	NZART	ZL1GWE
21272.0	3	2013	7	21	0735		G7D				8 SUBCARRIERS ON 300 HZ CENTRES	QG52xi	WIA	VK4TJ
21272		2013	7	29	<0742.	0742 0741-	J7D 75	330	CHN	Unid	Chinese 4+4 Modem S3 PSK-4B	RF73MF	NZART	ZL1GWE
21273		2013	7	21	<0741>	0742	J7D 75	330	CHN	Unid	Chinese 4+4 Modem S3 PSK-4B	RF73MF	NZART	ZL1GWE
21274.0	3	2013	7	15	0740		G7D				2 PAIRS OF SUBCARRIERS ON 300 HZ CENTRES	QG52xi	WIA	VK4TJ
21276		2013	7	21	<0544>	0544	G7DF		?	Unid	HF Man Pack 8-PSK S1	RF73MF	NZART	ZL1GWE

21280	10	2013	7	5	<0500>	0500	P0N		?	Unid	OTHR .3 sec bursts every 30 secs 100 PPS CODAR 18 sec burst every 5 minutes 7 PPS	RF72LQ	NZART	ZL1BAD
21283	15	2013	7	30	<0045>	0045	P0N		?	Unid	CODAR 17 sec burst at 2 PPS	RF72LQ	NZART	ZL1BAD
21285	20	2013	7	4	<0100>	0100	P0N		?	Unid	HF Man Pack 8-PSK S2	RF72LQ	NZART	ZL1BAD
21285		2013	7	29	<0452>	0452	G7DF	330	?	Unid	OTHR, BURSTS	RF73MF	NZART	ZL1GWE
21290.0	20	2013	7	1	0756		P0N				QG52xi	WIA		VK4TJ
21290	10	2013	7	7	<0001>	0001	P0N		?	Unid	OTHR 1.5 sec burst every 25 secs 60 PPS	RF72LQ	NZART	ZL1BAD
21290	10	2013	7	27	<0215>	0215	P0N		?	Unid	OTHR 2.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
21290	10	2013	7	27	<0520>	0520	P0N		?	Unid	OTHR Groups of 2 & 3, 1 sec apart, 2.7 sec each 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
21290	10	2013	7	29	<0430>	0430	P0N		?	Unid	OTHR Shifted from 21160	RF72LQ	NZART	ZL1BAD
21290		2013	7	29	<0448>	0448	G7DF	330	?	Unid	HF Man Pack 8-PSK S1	RF73MF	NZART	ZL1GWE
21290	10	2013	7	30	<0040>	0040	P0N		?	Unid	OTHR 1.7 secs every 20 secs 50 PPS OTHR Variable rate 46-49 pps S4 variable bursts 1.5, 1.6 and 1.8 seconds	RF72LQ	NZART	ZL1BAD
21292.5	9.2	2013	7	21	<0624>	0624	P0N	330	?	AUS	OTHR Double burst One sec delay	RF73MF	NZART	ZL1GWE
21293	10	2013	7	11	<2336>	2336	P0N		?	Unid	between OTHR Random length burst every 25 secs 50 PPS	RF72LQ	NZART	ZL1BAD
21293	10	2013	7	23	<0605>	0605	P0N		?	Unid	OTHR 1.4 sec burst @ random timing 50 PPS	RF72LQ	NZART	ZL1BAD
21293	10	2013	7	30	<0215>	0215	P0N		?	Unid	OTHR, bursts, signature tone on 21274 (S6)	RF72LQ	NZART	ZL1BAD
21293	14	2013	7	10	<0441>	0441- 0500	P0N		?	Unid	OTHR, bursts, signature tone on 21274 (S2)	RF73IJ	NZART	ZL1TPH
21294	12	2013	7	19	<0413>	0413- 0415	P0N		?	Unid	OTHR 3.5 sec burst every 20 secs. 80 PPS	RF73IJ	NZART	ZL1TPH
21295	10	2013	7	2	<0425>	0425	P0N		?	Unid	OTHR groups of 2 & 3 bursts spaced 20 secs	RF72LQ	NZART	ZL1BAD
21296	15	2013	7	18	<0630>	0630	P0N		?	Unid	OTHR, BURSTS	RF72LQ	NZART	ZL1BAD
21300.0	20	2013	7	21	0645		P0N				QG52xi	WIA		VK4TJ
21303	15	2013	7	8	<0600>	0600	P0N		?	Unid	OTHR 3 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD

21307	15	2013	7	7	<0215>	0215	P0N		?	Unid	OTHR 3.5 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
21308	26	2013	7	22	<0444>	0444	P0N	330	?	Unid	OTHR 68 pps S7 3.8 second bursts	RF73MF	NZART	ZL1GWE
21308	26	2013	7	29	<0444>	0444	P0N	330	?	Unid	OTHR S7 66pps 3.8 second bursts	Rf73MF	NZART	ZL1GWE
21310.0	20	2013	7	3	0830		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
21313	15	2013	7	8	<0245>	0245	P0N		?	Unid	OTHR 3.7 sec burst every 20 secs 80 PPS	RF72LQ	NZART	ZL1BAD
21320.0	20	2013	7	2	0750		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
21320	10	2013	7	23	<0530>	0530	P0N		?	Unid	OTHR 5.3 sec burst every 34 secs. 60 PPS	RF72LQ	NZART	ZL1BAD
21324		2013	7	29	<0453>	0453	G7DF	330	?	Unid	HF Man Pack S3 8- PSK	RF73Mf	NZART	ZL1GWE
											OTHR 4 sec burst every 15 secs - sometimes double burst, 1 sec delay			
21325	10	2013	7	26	<0430>	0430	P0N		?	Unid	HF Man Pack 8-PSK S1	RF72LQ	NZART	ZL1BAD
21326		2013	7	21	<0651>	0651	G7DF	330	?	Unid	HF MANPACK	Rf73MF	NZART	ZL1GWE
21330.0	5	2013	7	12	0040		G7DF				OTHR Double pulses 1 sec apart of 1.5 secs duration at 60 PPS	QG52xi	WIA	VK4TJ
21333	15	2013	7	16	<0345>	0345	P0N		?	Unid	HF Man Pack 8-PSK S1	RF72LQ	NZART	ZL1BAD
21333		2013	7	14	<0355>	0355	G7DF	330	?	Unid	HF Man Pack 8-PSK S1	Rf73MF	NZART	ZL1GWE
21338		2013	7	21	<0649>	0649	G7DF	330	?	Unid	HF MANPACK	Rf73MF	NZART	ZL1GWE
21340.0	5	2013	7	1	0805		G7DF				HF Man Pack 8-PSK S1	QG52xi	WIA	VK4TJ
21340		2013	7	21	<0649>	0649	G7DF	330	?	Unid	HF MANPACK	Rf73MF	NZART	ZL1GWE
21343.2	3	2013	7	1	0805		J3E/L				ASIAN	QG52xi	WIA	VK4TJ
21344		2013	7	29	<0456>	0456	G7DF	330	?	Unid	HF Man Pack 8-PSK S3	RF73MF	NZART	ZL1GWE
21345	10	2013	7	3	<0755>	0755	P0N		?	Unid	OTHR 3 sec burst every 20 secs 90 PPS	RF72LQ	NZART	ZL1BAD
21348	10	2013	7	25	<0430>	0430	P0N		?	Unid	OTHR 3.7 sec burst every 20 secs 80 PPS	RF72LQ	NZART	ZL1BAD
21349		2013	7	14	<0359>	0359	G7DF	330	?	Unid	HF Man Pack 8-PSK S1	RF73MF	NZART	ZL1GWE
21351		2013	7	21	<0648>	0648	G7DF	330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
21354		2013	7	14	<0355>	0355	G7DF	330	?	Unid	HF Man Pack 8-PSK S2	RF73MF	NZART	ZL1GWE
21356	15	2013	7	8	<0240>	0240	P0N		?	Unid	OTHR 3.7 sec burst every 20 secs 80 PPS	RF72LQ	NZART	ZL1BAD
21368	15	2013	7	10	<0040>	0040	P0N		?	Unid	OTHR 3.7 sec burst every 20 secs 80 PPS	RF72LQ	NZART	ZL1BAD

21373	15	2013	7	8	<0330>	0330	P0N		?	Unid	OTHR 3.7 sec burst every 20 secs 80 PPS	RF72LQ	NZART	ZL1BAD
21380	10	2013	7	24	<0530>	0530	P0N		?	Unid	OTHR 6 sec burst every 22 secs 70 PPS	RF72LQ	NZART	ZL1BAD
21383	10	2013	7	23	<0530>	0530	P0N		?	Unid	OTHR 3.7 sec burst every 34 secs 70 PPS OTHR 1.5 sec burst every 25 secs 50PPS Double pulses sometimes	RF72LQ	NZART	ZL1BAD
21387	10	2013	7	4	<0500>	0500	P0N		?	Unid	OTHR 3.7 sec burst every 20 secs 70 PPS	RF72LQ	NZART	ZL1BAD
21387	10	2013	7	27	<0100>	0100	P0N		?	Unid	OTHR, CONTINUOUS	RF72LQ	NZART	ZL1BAD
21390.0	20	2013	7	28	0840		P0N				HF Man Pack 8-PSK S2	QG52xi	WIA	VK4TJ
21396		2013	7	14	<0358>	0358	G7DF	330	?	Unid		Rf73MF	NZART	ZL1GWE
21403	15	2013	7	8	<0245>	0245	P0N		?	Unid	OTHR 3.7 sec burst every 20 secs 80 PPS	RF72LQ	NZART	ZL1BAD
21403	15	2013	7	8	<0610>	0610	P0N		?	Unid	OTHR 3 sec burst every 20 secs 90 PPS OTHR 5 sec burst every 25 sec	RF72LQ	NZART	ZL1BAD
21407	10	2013	7	7	<0001>	0001	P0N		?	Unid		RF72LQ	NZART	ZL1BAD
21410.0	20	2013	7	2	0750		P0N				OTHR, BURSTS	QG52xi	WIA	VK4TJ
21413	15	2013	7	4	<0615>	0615	P0N		?	Unid	OTHR 3 sec bursts	RF72LQ	NZART	ZL1BAD
21420.0	5	2013	7	23	0855		G7DF				HF MANPACK DAILY, RIP90 DE	QG52xi	WIA	VK4TJ
21438.0		2013	7	1	0805		A1A		UKR	RCV	RCV	QG52xi	WIA	VK4TJ
21441.0	3	2013	7	5	0020		J3E/U				ASIAN	QG52xi	WIA	VK4TJ
21993	14	2013	7	2	<0455>	0455- 0456	P0N		?	Unid	OTHR HF Man Pack 8-PSK S1	RF73IJ	NZART	ZL1TPH
24243		2013	7	14	<0355>	0355	G7DF	330	?	Unid		RF73MF	NZART	ZL1GWE
24900.0	5	2013	7	21	0050		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
24900		2013	7	DY	HX	HX	G7DE/F		?	Unid	HF Man Pack 1 PSK	RF72LQ	NZART	ZL1BAD
24905.0	5	2013	7	20	2300		G7DF				HF MANPACK	QG52xi	WIA	VK4TJ
24905.0	6	2013	7	7	0130		A3E				ASIAN	QG52xi	WIA	VK4TJ
24915.0	6	2013	7	5	0005		A3E				ASIAN	QG52xi	WIA	VK4TJ
24925.0	6	2013	7	4	2225		A3E				ASIAN	QG52xi	WIA	VK4TJ
24935.0	6	2013	7	26	2350		A3E				ASIAN	QG52xi	WIA	VK4TJ
24940.0	6	2013	7	19	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
24955.0	6	2013	7	18	2350		A3E				ASIAN	QG52xi	WIA	VK4TJ
24975.0	6	2013	7	28	0355		A3E				ASIAN	QG52xi	WIA	VK4TJ
28000.0	6	2013	7	6	0720		F3E				ASIAN	QG52xi	WIA	VK4TJ
28000.0	5	2013	7	13	0140		G7DF				HF MANPACK OTHR S2 5.5 second bursts 865 bursts 3 second 308 pps bursts	QG52xi	WIA	VK4TJ
28000	52	2013	7	14	<0633>	0633	P0N	330	IRN	Unid		RF73MF	NZART	ZL1GWE

28000		2013	7	DY	HX	HX	G7DE/F	?	Unid	HF Man Pack 1 PSK	RF72LQ	NZART	ZL1BAD
28005.0	6	2013	7	7	0105		A3E			ASIAN	QG52xi	WIA	VK4TJ
28010.0	100	2013	7	14	0645		P0N	IRI		IRANIAN OTHR	QG52xi	WIA	VK4TJ
28012.5	6	2013	7	19	2325		A3E			ASIAN	QG52xi	WIA	VK4TJ
28015.0	6	2013	7	7	0105		A3E			ASIAN	QG52xi	WIA	VK4TJ
28020.0	100	2013	7	13	0240		P0N	IRI		IRANIAN OTHR	QG52xi	WIA	VK4TJ
28025.0	6	2013	7	6	0720		A3E			ASIAN	QG52xi	WIA	VK4TJ
28035.0	6	2013	7	7	0110		A3E			ASIAN	QG52xi	WIA	VK4TJ
28037.5	6	2013	7	4	2240		F3E			ASIAN	QG52xi	WIA	VK4TJ
28041.0	6	2013	7	20	0100		A3E			ASIAN	QG52xi	WIA	VK4TJ
28050.0	100	2013	7	27	0315		P0N	IRI		IRANIAN OTHR	QG52xi	WIA	VK4TJ
28050.0	6	2013	7	1	0735		F3E			ASIAN	QG52xi	WIA	VK4TJ
28055.0	6	2013	7	7	0110		A3E			ASIAN	QG52xi	WIA	VK4TJ
28065.0	5	2013	7	18	2320		G7DF			HF MANPACK	QG52xi	WIA	VK4TJ
28065.0	6	2013	7	7	0110		A3E			ASIAN	QG52xi	WIA	VK4TJ
										SPANISH LANGUAGE, ROGER			
28075.0	6	2013	7	18	2300		A3E			BEEPS	QG52xi	WIA	VK4TJ
28075.0	6	2013	7	6	0720		A3E			ASIAN	QG52xi	WIA	VK4TJ
28080.0	6	2013	7	5	0720		A3E			ASIAN	QG52xi	WIA	VK4TJ
28085.0	6	2013	7	7	0110		A3E			ASIAN	QG52xi	WIA	VK4TJ
28087.5	6	2013	7	14	0140		A3E			ASIAN	QG52xi	WIA	VK4TJ
28100.0	100	2013	7	27	0330		P0N	IRI		IRANIAN OTHR	QG52xi	WIA	VK4TJ
28100.0	6	2013	7	11	2350		A3E			ASIAN	QG52xi	WIA	VK4TJ
28105.0	6	2013	7	7	0110		A3E			ASIAN	QG52xi	WIA	VK4TJ
28110.0	100	2013	7	28	0325		P0N	IRI		IRANIAN OTHR	QG52xi	WIA	VK4TJ
28112.5	6	2013	7	11	2350		A3E			ASIAN	QG52xi	WIA	VK4TJ
28115.0	6	2013	7	7	0110		A3E			ASIAN	QG52xi	WIA	VK4TJ
28125.0	6	2013	7	1	0735		F3E			ASIAN	QG52xi	WIA	VK4TJ
28135.0	6	2013	7	7	0110		A3E			ASIAN	QG52xi	WIA	VK4TJ
28137.5	6	2013	7	12	2245		A3E			ASIAN	QG52xi	WIA	VK4TJ
28145.0	6	2013	7	1	0735		A3E			ASIAN	QG52xi	WIA	VK4TJ
28150.0	6	2013	7	20	0120		A3E			ASIAN	QG52xi	WIA	VK4TJ
28155.0	5	2013	7	12	0030		G7DF			HF MANPACK	QG52xi	WIA	VK4TJ
28155.0	6	2013	7	5	2255		A3E			ASIAN	QG52xi	WIA	VK4TJ
28160.0	5	2013	7	20	0125		G7DF			HF MANPACK	QG52xi	WIA	VK4TJ
28160.0	6	2013	7	20	0125		A3E			ASIAN	QG52xi	WIA	VK4TJ
28162.5	6	2013	7	5	2320		A3E			ASIAN	QG52xi	WIA	VK4TJ
28165.0	6	2013	7	7	0110		A3E			ASIAN	QG52xi	WIA	VK4TJ
28175.0	6	2013	7	7	0110		F3E			ASIAN	QG52xi	WIA	VK4TJ
28185.0	6	2013	7	7	0110		F3E			ASIAN	QG52xi	WIA	VK4TJ
28187.5	6	2013	7	4	2240		A3E			ASIAN	QG52xi	WIA	VK4TJ
28195.0	6	2013	7	7	0110		A3E			ASIAN	QG52xi	WIA	VK4TJ
28200.0	6	2013	7	1	0735		A3E			ASIAN	QG52xi	WIA	VK4TJ
28205.0	6	2013	7	7	0110		A3E			ASIAN	QG52xi	WIA	VK4TJ

28212.5	6	2013	7	11	2350	A3E	ASIAN	QG52xi	WIA	VK4TJ
28215.0	5	2013	7	11	2355	G7DF	HF MANPACK	QG52xi	WIA	VK4TJ
28215.0	6	2013	7	7	0110	A3E	ASIAN SPANISH LANGUAGE, ROGER	QG52xi	WIA	VK4TJ
28225.0	6	2013	7	18	2305	A3E	BEEPS	QG52xi	WIA	VK4TJ
28225.0	6	2013	7	5	0730	F3E	ASIAN	QG52xi	WIA	VK4TJ
28235.0	6	2013	7	6	0725	A3E	ASIAN	QG52xi	WIA	VK4TJ
28237.5	6	2013	7	13	0150	A3E	ASIAN	QG52xi	WIA	VK4TJ
28245.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28250.0	6	2013	7	13	0150	A3E	ASIAN	QG52xi	WIA	VK4TJ
28255.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28262.5	6	2013	7	20	0140	A3E	ASIAN	QG52xi	WIA	VK4TJ
28265.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28275.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28282.5	6	2013	7	19	2345	A3E	ASIAN SPANISH LANGUAGE, ROGER	QG52xi	WIA	VK4TJ
28285.0	6	2013	7	18	2305	A3E	BEEPS	QG52xi	WIA	VK4TJ
28285.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28295.0	6	2013	7	7	0115	F3E	ASIAN	QG52xi	WIA	VK4TJ
28300.0	6	2013	7	19	2325	F3E	ASIAN POP MUSIC	QG52xi	WIA	VK4TJ
28300.0	6	2013	7	19	2325	A3E	ASIAN	QG52xi	WIA	VK4TJ
28300.0	6	2013	7	5	2320	A3E	ASIAN	QG52xi	WIA	VK4TJ
28305.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28310.0	5	2013	7	20	0200	G7DF	HF MANPACK	QG52xi	WIA	VK4TJ
28315.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28325.0	6	2013	7	7	0115	F3E	ASIAN	QG52xi	WIA	VK4TJ
28335.0	6	2013	7	6	0725	A3E	ASIAN	QG52xi	WIA	VK4TJ
28345.0	6	2013	7	4	2355	A3E	ASIAN	QG52xi	WIA	VK4TJ
28350.0	5	2013	7	20	0300	G7DF	HF MANPACK SPANISH LANGUAGE, ROGER	QG52xi	WIA	VK4TJ
28355.0	6	2013	7	18	2310	A3E	BEEPS	QG52xi	WIA	VK4TJ
28355.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28362.5	6	2013	7	8	0740	A3E	ASIAN	QG52xi	WIA	VK4TJ
28365.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28375.0	6	2013	7	7	0115	F3E	ASIAN	QG52xi	WIA	VK4TJ
28385.0	5	2013	7	20	0305	G7DF	HF MANPACK	QG52xi	WIA	VK4TJ
28385.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28395.0	6	2013	7	12	0025	A3E	ASIAN	QG52xi	WIA	VK4TJ
28400.0	6	2013	7	1	0735	A3E	ASIAN	QG52xi	WIA	VK4TJ
28405.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28412.5	6	2013	7	19	2350	F3E	ASIAN	QG52xi	WIA	VK4TJ
28415.0	6	2013	7	7	0115	A3E	ASIAN	QG52xi	WIA	VK4TJ
28425.0	6	2013	7	7	0115	F3E	ASIAN	QG52xi	WIA	VK4TJ

28430.0	20	2013	7	21	0935		P0N				OTHR, SLOW PULSE			
28435.0	6	2013	7	7	0115		A3E				RATE	QG52xi	WIA	VK4TJ
											ASIAN	QG52xi	WIA	VK4TJ
28450.0	6	2013	7	5	2320		A3E				SW BROADCAST			
28450.0	6	2013	7	19	2350		A3E				ASIAN MUSIC	QG52xi	WIA	VK4TJ
28450.0	5	2013	7	19	2350		G7DF				ASIAN	QG52xi	WIA	VK4TJ
28455.0	6	2013	7	7	0120		A3E				HF MANPACK	QG52xi	WIA	VK4TJ
28462.5	6	2013	7	26	2325		A3E				ASIAN	QG52xi	WIA	VK4TJ
28465.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28475.0	6	2013	7	7	0140		F3E				ASIAN	QG52xi	WIA	VK4TJ
28485.0	6	2013	7	7	0140		A3E				ASIAN	QG52xi	WIA	VK4TJ
28500.0	100	2013	7	6	0730		P0N		IRI		IRANIAN OTHR	QG52xi	WIA	VK4TJ
28500		2013	7	DY	HX	HX	G7DE/F		?	Unid	HF Man Pack 6 PSK	RF72LQ	NZART	ZL1BAD
28505.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28512.5	6	2013	7	18	2330		A3E				ASIAN	QG52xi	WIA	VK4TJ
28515.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28525.0	6	2013	7	6	0730		A3E				ASIAN	QG52xi	WIA	VK4TJ
28535.0	6	2013	7	6	0730		A3E				ASIAN	QG52xi	WIA	VK4TJ
28540.0	100	2013	7	8	0745		P0N		IRI		IRANIAN OTHR	QG52xi	WIA	VK4TJ
28550.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28555.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
											OTHR, SLOW PULSE			
28560.0	20	2013	7	21	0820		P0N				RATE	QG52xi	WIA	VK4TJ
28560.0	6	2013	7	12	0000		A3E				ASIAN	QG52xi	WIA	VK4TJ
28562.5	6	2013	7	18	2335		A3E				ASIAN	QG52xi	WIA	VK4TJ
28565.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28575.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28585.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28595.0	6	2013	7	6	0730		A3E				ASIAN	QG52xi	WIA	VK4TJ
28600.0	6	2013	7	4	2240		A3E				ASIAN	QG52xi	WIA	VK4TJ
28605.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28615.0	6	2013	7	7	0140		A3E				ASIAN	QG52xi	WIA	VK4TJ
28625.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28635.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28637.5	6	2013	7	31	0825		A3E				ASIAN	QG52xi	WIA	VK4TJ
28640.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28645.0	6	2013	7	7	0140		A3E				ASIAN	QG52xi	WIA	VK4TJ
28650.0	6	2013	7	10	0100		A3E				ASIAN	QG52xi	WIA	VK4TJ
28655.0	6	2013	7	6	0730		A3E				ASIAN	QG52xi	WIA	VK4TJ
28662.5	6	2013	7	7	0645		A3E				ASIAN	QG52xi	WIA	VK4TJ
28665.0	6	2013	7	1	0740		A3E				ASIAN	QG52xi	WIA	VK4TJ
28675.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28680.0	6	2013	7	5	2325		A3E				ASIAN	QG52xi	WIA	VK4TJ
28685.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ
28695.0	6	2013	7	7	0120		A3E				ASIAN	QG52xi	WIA	VK4TJ

28700.0	6	2013	7	5	2325	A3E	ASIAN	QG52xi	WIA	VK4TJ
28705.0	6	2013	7	7	0120	A3E	ASIAN	QG52xi	WIA	VK4TJ
28715.0	6	2013	7	7	0125	A3E	ASIAN	QG52xi	WIA	VK4TJ
28725.0	6	2013	7	1	0740	F3E	ASIAN	QG52xi	WIA	VK4TJ
28735.0	6	2013	7	1	0740	A3E	ASIAN	QG52xi	WIA	VK4TJ
28740.0	6	2013	7	21	0205	G7DF	HF MANPACK	QG52xi	WIA	VK4TJ
28745.0	6	2013	7	7	0125	A3E	ASIAN	QG52xi	WIA	VK4TJ
28750.0	6	2013	7	31	0825	A3E	ASIAN	QG52xi	WIA	VK4TJ
28755.0	6	2013	7	6	0730	A3E	ASIAN	QG52xi	WIA	VK4TJ
28760.0	6	2013	7	13	0230	A3E	ASIAN	QG52xi	WIA	VK4TJ
28765.0	6	2013	7	12	0000	A3E	ASIAN	QG52xi	WIA	VK4TJ
28775.0	6	2013	7	7	0145	F3E	ASIAN	QG52xi	WIA	VK4TJ
28800.0	6	2013	7	14	0150	A3E	ASIAN	QG52xi	WIA	VK4TJ
28805.0	6	2013	7	12	0020	A3E	ASIAN	QG52xi	WIA	VK4TJ
28815.0	6	2013	7	14	0155	A3E	ASIAN	QG52xi	WIA	VK4TJ
28820.0	5	2013	7	18	2335	G7DF	HF MANPACK	QG52xi	WIA	VK4TJ
28825.0	6	2013	7	1	0740	A3E	ASIAN	QG52xi	WIA	VK4TJ
28835.0	6	2013	7	12	0000	A3E	ASIAN	QG52xi	WIA	VK4TJ
28850.0	6	2013	7	14	0200	A3E	ASIAN	QG52xi	WIA	VK4TJ
28855.0	6	2013	7	14	0200	A3E	ASIAN	QG52xi	WIA	VK4TJ
28862.5	6	2013	7	7	0145	A3E	ASIAN	QG52xi	WIA	VK4TJ
28875.0	6	2013	7	14	0150	A3E	ASIAN	QG52xi	WIA	VK4TJ
28885.0	6	2013	7	14	0205	A3E	ASIAN	QG52xi	WIA	VK4TJ
28887.5	6	2013	7	21	0210	A3E	ASIAN	QG52xi	WIA	VK4TJ
28900.0	6	2013	7	8	0750	A3E	ASIAN	QG52xi	WIA	VK4TJ
28905.0	6	2013	7	12	0005	A3E	ASIAN	QG52xi	WIA	VK4TJ
28912.5	6	2013	7	7	0645	A3E	ASIAN	QG52xi	WIA	VK4TJ
28915.0	6	2013	7	26	2335	A3E	ASIAN	QG52xi	WIA	VK4TJ
28925.0	6	2013	7	14	0215	A3E	ASIAN	QG52xi	WIA	VK4TJ
28935.0	6	2013	7	26	2335	A3E	ASIAN	QG52xi	WIA	VK4TJ
28950.0	6	2013	7	12	0005	A3E	ASIAN	QG52xi	WIA	VK4TJ
28962.5	6	2013	7	31	0830	A3E	ASIAN	QG52xi	WIA	VK4TJ
28965.0	6	2013	7	12	0005	A3E	ASIAN	QG52xi	WIA	VK4TJ
28975.0	6	2013	7	8	0750	A3E	ASIAN	QG52xi	WIA	VK4TJ
28980.0	8	2013	7	7	0145	A3E	ASIAN SW BROADCAST OTHR, CONTINUOUS	QG52xi	WIA	VK4TJ
29000.0	20	2013	7	28	0825	P0N		QG52xi	WIA	VK4TJ
29000.0	6	2013	7	19	2355	A3E	ASIAN	QG52xi	WIA	VK4TJ
29025.0	6	2013	7	18	2340	A3E	ASIAN	QG52xi	WIA	VK4TJ
29045.0	6	2013	7	12	0005	A3E	ASIAN	QG52xi	WIA	VK4TJ
29050.0	6	2013	7	1	0740	F3E	ASIAN	QG52xi	WIA	VK4TJ
29055.0	6	2013	7	26	2340	A3E	ASIAN	QG52xi	WIA	VK4TJ
29070.0	6	2013	7	19	2355	A3E	ASIAN	QG52xi	WIA	VK4TJ
29100.0	6	2013	7	20	0000	A3E	ASIAN	QG52xi	WIA	VK4TJ
29112.5	6	2013	7	26	2340	A3E	ASIAN	QG52xi	WIA	VK4TJ

29125.0	6	2013	7	12	0020	A3E	ASIAN	QG52xi	WIA	VK4TJ
29150.0	6	2013	7	21	0215	A3E	ASIAN	QG52xi	WIA	VK4TJ
29175.0	6	2013	7	14	0745	F3E	ASIAN	QG52xi	WIA	VK4TJ
29187.5	6	2013	7	31	0830	A3E	ASIAN	QG52xi	WIA	VK4TJ
29212.5	6	2013	7	12	0015	A3E	ASIAN	QG52xi	WIA	VK4TJ
29215.0	6	2013	7	18	2340	A3E	ASIAN	QG52xi	WIA	VK4TJ
29225.0	6	2013	7	21	0215	A3E	ASIAN	QG52xi	WIA	VK4TJ
							ASIAN, FISHBOATS, ENGINE NOISE	QG52xi	WIA	VK4TJ
29250.0	6	2013	7	26	2340	A3E	ASIAN	QG52xi	WIA	VK4TJ
29255.0	6	2013	7	12	0015	A3E	ASIAN, FISHBOATS, ENGINE NOISE	QG52xi	WIA	VK4TJ
29262.5	6	2013	7	26	2340	A3E	ASIAN	QG52xi	WIA	VK4TJ
29275.0	6	2013	7	1	0745	F3E	ASIAN	QG52xi	WIA	VK4TJ
29325.0	6	2013	7	7	0650	A3E	ASIAN	QG52xi	WIA	VK4TJ
29337.5	6	2013	7	7	0650	A3E	ASIAN	QG52xi	WIA	VK4TJ
29350.0	6	2013	7	8	0750	A3E	ASIAN	QG52xi	WIA	VK4TJ
							ASIAN, FISHBOATS, ENGINE NOISE	QG52xi	WIA	VK4TJ
29385.0	6	2013	7	26	2345	A3E	ASIAN	QG52xi	WIA	VK4TJ
29387.5	6	2013	7	7	0650	A3E	ASIAN	QG52xi	WIA	VK4TJ
29400.0	6	2013	7	7	0650	A3E	ASIAN	QG52xi	WIA	VK4TJ
29412.5	6	2013	7	20	0005	F3E	ASIAN	QG52xi	WIA	VK4TJ
29425.0	6	2013	7	1	0745	F3E	ASIAN	QG52xi	WIA	VK4TJ
29437.5	6	2013	7	7	0650	A3E	ASIAN	QG52xi	WIA	VK4TJ
29450.0	6	2013	7	20	0005	A3E	ASIAN	QG52xi	WIA	VK4TJ
29462.5	6	2013	7	5	0000	F3E	ASIAN	QG52xi	WIA	VK4TJ
29475.0	6	2013	7	5	0000	F3E	ASIAN	QG52xi	WIA	VK4TJ
29500.0	6	2013	7	26	2345	A3E	ASIAN	QG52xi	WIA	VK4TJ
29515.0	6	2013	7	21	0215	A3E	ASIAN	QG52xi	WIA	VK4TJ
29525.0	6	2013	7	26	2345	A3E	ASIAN	QG52xi	WIA	VK4TJ
29537.5	6	2013	7	20	0005	F3E	ASIAN	QG52xi	WIA	VK4TJ
29587.5	6	2013	7	12	0010	A3E	ASIAN	QG52xi	WIA	VK4TJ
29595.0	6	2013	7	12	0010	A3E	ASIAN	QG52xi	WIA	VK4TJ
29612.5	6	2013	7	31	0835	A3E	ASIAN	QG52xi	WIA	VK4TJ
29650.0	6	2013	7	7	0650	A3E	ASIAN	QG52xi	WIA	VK4TJ
29662.5	6	2013	7	26	2350	A3E	ASIAN	QG52xi	WIA	VK4TJ
29675.0	6	2013	7	5	0000	F3E	ASIAN	QG52xi	WIA	VK4TJ
29700.0	6	2013	7	1	0745	F3E	ASIAN	QG52xi	WIA	VK4TJ